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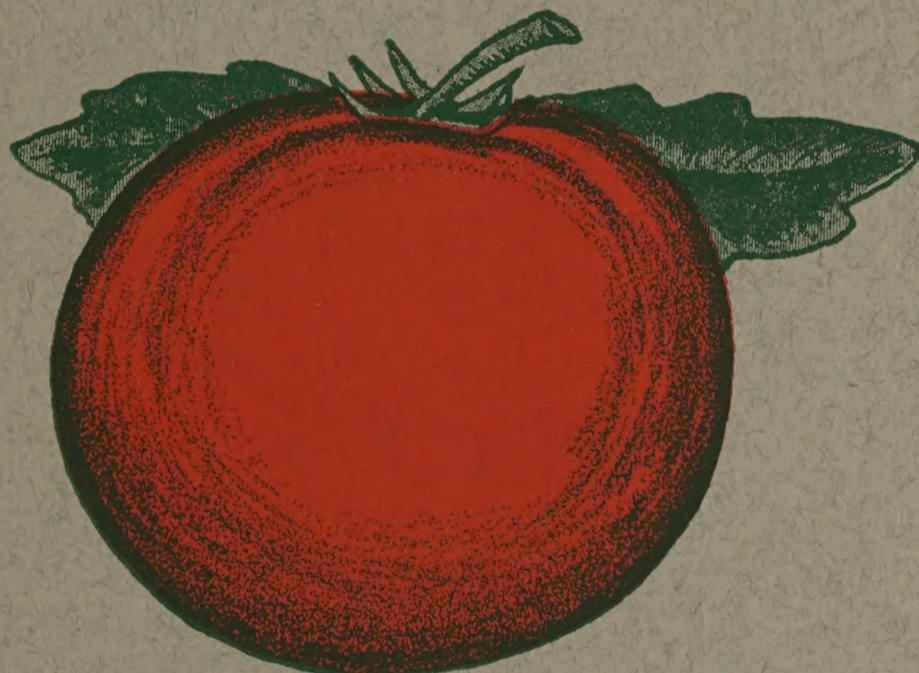
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SEEDS

1939

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GROW

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FARM MACHINERY

GARDEN

SUPPLIES

WISEMAN-DOWNS CO., INC.

34 E. PRATT ST.

BALTIMORE, MD.

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ORDER SHEET

WISEMAN-DOWNS CO., Inc.

34 EAST PRATT STREET
BALTIMORE, MD.

“Quality Seeds That Grow”

We shall at all times, put forth every effort to procure or have grown for us the very best seeds obtainable, as to quality, trueness to name and germination. Regardless of these facts, sometimes climatic or soil conditions arise over which we have no control and therefore:—We give no warranty, express or implied, as to description, quality, productiveness or any other matter of any Seeds, Bulbs or Plants we send out and we will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms they must at once be returned.

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Your Name.

(Prefix, Miss, Mrs. or Mr.)

Post Office.

Freight or Express (if different from P. O.).

County of _____ State of _____

..Date.

1939

Amount Enclosed \$.

(Check, Money Order or Stamps)

KINDLY WRITE IN SPACE BELOW THE NAMES OF FRIENDS YOU THINK WOULD LIKE OUR CATALOGUE

QUALITY and SERVICE

WHEN we speak of Quality we mean that our every effort is put forth in order to secure and have grown for us the very best seeds obtainable, that you may be sure of quality products; and that your efforts will not be for naught when planting same. We persist in keeping in touch with the best growers the world over, for any new varieties as they are developed. As for Service; you will find us on the alert at all times to render the service which you so justly deserve and which we are prepared to give. To convince you of this, all we ask is a trial. We make hundreds of tests for germination throughout the entire year that we may be assured of supplying only "Seeds that Grow." Our Farm Machinery Department is in charge of competent and efficient men and only the best farm tools that have been tried and proven worthy are sold, with the understanding that the customer must be satisfied or money refunded. We thank you for past patronage and hoping for a continuance of same.

WISEMAN-DOWNS CO., INC.

BUSINESS RULES AND PROCEDURE

PLEASE ORDER EARLY, thus enabling us to forward promptly—as a rule the day after the order is received. During the March and April rush we may fall a day or two behind; if any greater delay is likely we will advise. If goods ordered do not arrive in a reasonable time, send a copy of the order with letter of inquiry. This will be a great help in expediting adjustment.

THE ORDER BLANKS accompanying this catalogue will be convenient for customers and facilitate our filling orders (extra ones mailed on request).

PATRONS IN SIGNING ORDERS are requested to use prefix Mr., Mrs. or Miss. Married ladies should invariably use husband's initials

WE GUARANTEE THE SAFE ARRIVAL in United States of all goods forwarded by express.

WE FORWARD AS CUSTOMER DIRECTS by Parcel Post, express, freight or steamer, in accordance with our offers elsewhere in this catalogue. When no shipping instructions are given, we send according to our judgment.

ALWAYS GIVE FULL ADDRESS.—This is very important, yet is sometimes omitted by customers; in fact, some orders and letters reach us lacking both name and address.

REMITTANCES may be made by Express Money Order, P. O. Money Order or Bank Draft; if stamps or cash send in a Registered Letter.

ACCOUNTS.—Parties having no account with us—who order goods without remittance—must furnish satisfactory reference. Baltimore city reference preferred on account of the shorter delay pending investigation.

QUESTIONS AND CORRESPONDENCE.—We endeavor to answer promptly all letters of inquiry—which should be on separate paper from orders—but we cannot undertake the planning of gardens and grounds.

ERROR IN THE FILLING OF ORDERS.—We use the greatest care in filling, checking and packing orders. Yet should anything be omitted we will promptly forward when advised. Keep a duplicate copy of your order for comparison.

TO PREPARE A COLD FRAME

The Cold Frame is simply a frame set on the ground, no bottom heat being applied. It is banked up on the outside during the Winter with marsh hay, straw or coarse litter. The soil is prepared by forking in and thoroughly mixing to the depth of 10 or 12 inches a liberal quantity of old, well-rotted manure. The manure of an old hot-bed is good for the purpose. The frame is prepared in the Fall, and young Cabbage, Cauliflower and Lettuce plants are set out in it in time to get well established before very cold weather. Cauliflower and Cabbage should be set down to the first leaf and the soil made firm around the plants. The seed is usually sown, in this vicinity, from the 15th to the 20th of September. The young plants will be ready to

transplant in about 25 to 30 days. During cold nights and stormy days the beds should be closely covered with the sashes, and these further protected by straw mats or shutters. Cauliflower needs more and closer protection than Cabbage, and it is rather more tender. During mild days admit air freely, the object being to keep the plants in a dormant state, without actual freezing, so that when Spring comes they are in a forward state for setting out early crops. Seeds of Cabbage, Cauliflower, Lettuce and Radish may be sown in a Cold Frame in the Spring from the last week in February to the first week in March. The frame should stand in a warm and sheltered spot, and be kept from freezing by mats or a thick covering of straw during cold nights.

DIRECTIONS FOR MAKING A HOTBED

In this vicinity from the first to the latter part of March is quite early enough to make a Hotbed. The time must vary according to the latitude. Provide a quantity of fresh horse manure from the stables, and add to this, if they can be had, one-third to one-half its bulk of leaves. Mix them thoroughly, tramping down the mass in successive layers and form into a large pile, so that fermentation will proceed even in severe cold weather. In two or three days fermentation will be apparent by the escape of steam from the heap. Now turn again, and allow the heap to remain two or three days longer, or until the second fermentation commences. Make an excavation or pit $2\frac{1}{2}$ feet deep and of a size suited to the number of plants required. The pit will be better if built up of brick. It should be made in some dry, sheltered spot, facing the south or east, if possible. Hotbed sashes are usually 3x6 feet, and one or two sashes will give early plants enough for a small family. The frame for sashes should be 18 inches high at the back and 12 inches in front, which will give the proper slope to catch the sunlight. Cross-pieces should be placed for the sashes to slide on, to facilitate opening and shutting the frames. When everything is ready, the manure is placed in the pit and trod-

den down firmly in layers to the required depth, 2 to $2\frac{1}{2}$ feet. Then put on the sashes and keep the pit closed until the heat arises. At first it will probably be 100 degrees or more, which is too hot to sow the seed in, but in two or three days it will subside to 90 degrees or a little less, when the soil may be put on to the depth of 6 to 8 inches. The heat may be readily ascertained by plunging a thermometer into the manure. The soil should be of well-rotted sod (or common garden soil will do), mixed with about one-third of fine old manure, and in this the seeds may be sown thinly in drills 2 or 3 inches apart, and afterwards (as soon as out of the seed leaf) either thinned out or else transplanted to another frame. Air must be given every mild day by raising the sashes at the back. Water with tepid water whenever necessary, and during cold nights and snow-storms keep covered with mats or board shutters. Tomatoes, Peppers and Egg-plants should be sown in a separate frame from Cabbage, Cauliflower and Lettuce, as they require more heat. The same directions may apply to Hotbeds made on the surface of the ground, except that the manure should be at least a foot wider on all sides than the frame.

SEEDS THAT GROW

ARTICHOKE

CULTURE.—Plant the seed during March or April in hot-beds or some similar manner that the plants may be protected. When the plants are large enough and all danger of frost is past they should be transplanted in rows about 4 feet apart and about 2 feet in the row. They should be protected during Winter with a heavy dressing of manure or straw.

GREEN GLOBE

Plants of medium height with large thistle-like medium deep green foliage; grown for the undeveloped flower heads which are cooked like asparagus. Pkt. 10c, oz. 40c.

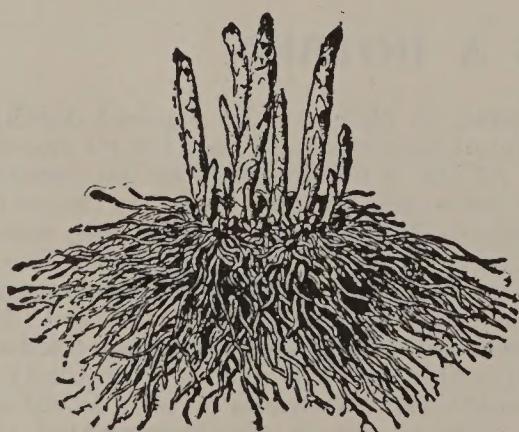
ASPARAGUS



This can be grown from seeds or roots, the latter preferred. It is one of the earliest and most delicious of Spring vegetables. Seeds should be sown thinly in early Spring in rows 1 foot apart. Thin out the weakest plants so the remainder will be 4 inches apart. When 1 year old transplant in the permanent bed, from where it can be cut 3 years later. One ounce of seed will sow about 60 feet of drill. About 400 plants to the ounce. Asparagus may be grown in almost any soil or situation, but special success is attained in thoroughly enriched, deeply dug sandy loam. Beds cared for improve with age, lasting for many years.

MARY WASHINGTON (Rust Proof)

Our stocks of this variety come from carefully selected roots from the original fields as introduced by the Dept. of Agriculture, and is the best stock available for seed purposes. The main feature of this variety is its rust resisting qualities. It is also a large variety and very prolific, of a good greenish color. Pkt. 10c, oz. 15c, 1/4 lb. 25c, lb. 75c.



ASPARAGUS ROOTS

TWO-YEAR OLD ROOTS

4,000 to 6,000 roots are required for an acre.

MARY WASHINGTON

Per 100.....\$1.25 Per 1,000.....\$9.00

Dwarf Green Pod Beans

CULTURE.—Sow the seed after all danger of frost is past, in rows 2 feet apart. Soil should be warm and well prepared. Frequent, shallow cultivation while plants are young is advisable. For succession plant every 10 days or 2 weeks until midsummer. One pint will plant 100 feet of row, one bushel will plant one acre. Plant about one and a half inches deep.



NEW STRINGLESS

Plant medium large, erect, somewhat thick stemmed, heavily productive. Pods nearly straight, dark green, round meaty, succulent; absolutely stringless, totally without fiber, of outstanding quality. Pkt. 10c, pt. 25c, qt. 40c, pk. \$2.00, bu. \$7.00.

FULL MEASURE

This new green-podded bush bean is a heavy cropper and very early, of fine shape, stringless and good quality. Its hardiness and great productiveness make it one of the very best bush beans. Pkt. 10c, pt. 25c, qt. 40c, pk. \$2.00, bu. \$7.00.

GIANT STRINGLESS

A very popular variety with the market gardeners. Since its introduction a few years ago it has become very much in demand. Pods round and of a beautiful color, very early and prolific. Pkt. 10c, pt. 25c, qt. 40c, pk. \$2.00, bu. \$7.00.

BURPEE'S STRINGLESS GREEN POD

An exceedingly productive and very handsome sort. Vines vigorous and spreading. The pods mature a few days later than those of Stringless Green Pod, average about 1/4 inch longer and more nearly straight. The quality is very good for home use; suitable also for the market. Pkt. 10c, pt. 25c, qt. 40c, pk. \$2.00, bu. \$7.00.

Dwarf Green Pod Beans**STRINGLESS BLACK VALENTINE**

A very hardy variety, as it will withstand slight frost. Pods long and well formed. Very prolific and positively stringless. Very early; maturing in 49 days. Pkt. 10c, pt. 25c, qt. 40c, pk. \$2.00, bu. \$7.00.

BOUNTIFUL

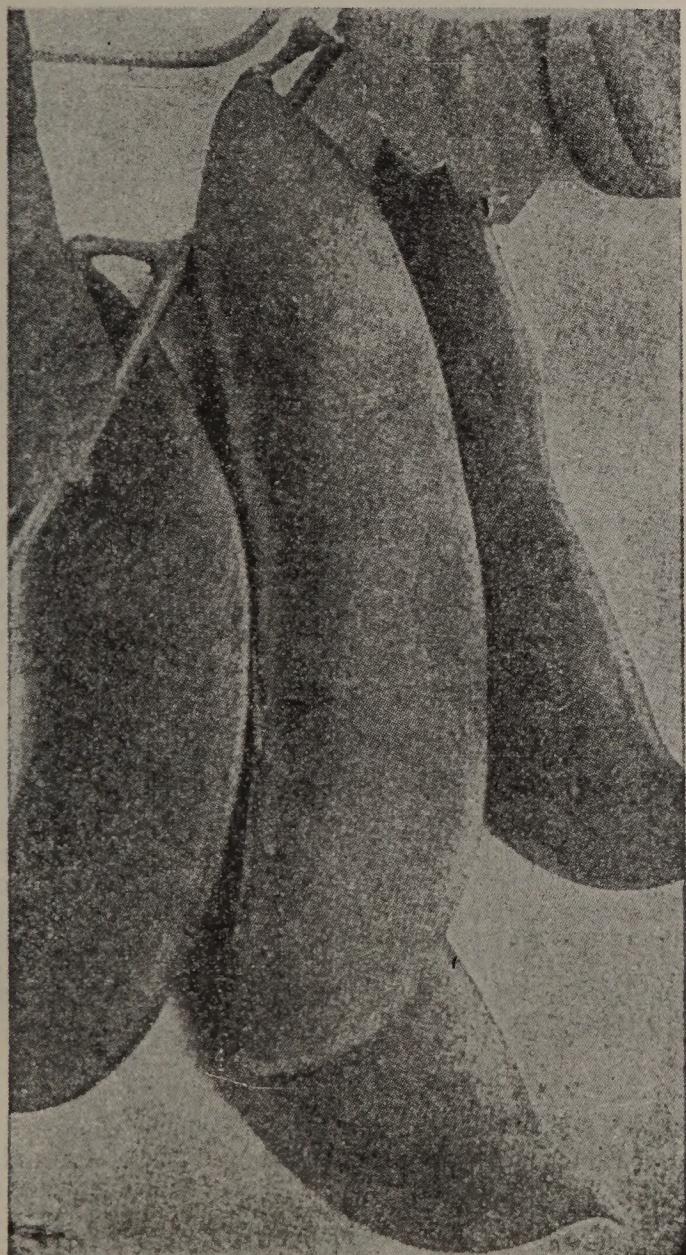
An extra early flat podded sort. Absolutely stringless and of a very good quality. Very productive and a splendid shipper. Can be highly recommended to the trucking trade. Pkt. 10c, pt. 25, qt. 40c, pk. \$2.00, bu. \$7.00.

DWARF HORTICULTURAL or CHERRY

Vines very productive, compact, upright, with large leaves; pods medium length, cylindrical, curved, with splashes of bright red on a yellowish ground. Used as a green snap and also as a shell bean for winter use. Pkt. 10c, pt. 25c, qt. 40c, pk. \$2.25, bu. \$7.50.

DWARF WAX POD BEANS**SURE CROP WAX—STRINGLESS**

A selection from Currie's Rust Proof Wax, having black seed and differing from that sort in that it is stringless, more hardy, rust-resistant and a little later. Pods flat, and average an inch longer and somewhat thicker than Currie's and with a stronger plant growth. Very desirable. Pkt. 10c, pt. 25c, qt. 40c, pk. \$2.25, bu. \$8.00.



Enormous Pole Lima

ROUND POD KIDNEY WAX

An outstanding sort for home use and for the market gardener. Plant large, erect, vigorous and productive. Pods handsome in appearance, medium yellow, round, slightly curved, extremely brittle and absolutely stringless; matures in 53 days. Pkt. 10c, pt. 25c, qt. 40c, pk. \$2.25, bu. \$8.00.

PENCIL POD BLACK WAX

Pods round and of a uniform rich yellow color; tender, very brittle and stringless. Plants are vigorous, stocky and very productive. Pkt. 10c, pt. 25c, qt. 40c, pk. \$2.25, bu. \$8.00.

POLE BEANS**LAZY WIFE**

As this can be used as a shell or green bean, makes it very valuable for every home gardener as well as the market gardener. Pods are large and mealy; ripens early and very prolific. Pkt. 10c, pt. 25c, qt. 40c, pk. \$2.00, bu. \$7.50.

KENTUCKY WONDER

Vine vigorous, climbing well and very productive; dry beans, long, oval, dun-colored; green pod, 9 and 10 inches long. Pkt. 10c, pt. 25c, qt. 40c, pk. \$2.00, bu. \$7.50.

HORTICULTURAL or WREN'S EGG

Vines moderately vigorous, bearing broad pale green pods. Used either in the green state or as dried for winter. Pkt. 10c, pt. 25c, qt. 40c, pk. \$2.50,

POLE LIMA BEANS

CULTURE.—Plant when all danger of frost or cold nights are over. Don't be afraid to put a liberal number in a hill, as this is cheaper than replanting. Set poles 4 feet apart each way. Thin out to 3 plants to a pole. One quart will plant 100 hills; 12 to 15 quarts per acre.

ENORMOUS POLE LIMA

Wonderfully prolific. The big, broad, thick, meaty beans holding their fresh greenish color, even when dried, are crowded tightly in the pods. The vines are so tremendously prolific that the handsome pods seem literally crammed on to every inch of the branches. Plant this variety and you will be pleased with the results. Pkt. 10c, pt. 25c, qt. 40c, pk. \$2.75, bu. \$9.50.

KING OF THE GARDEN

Vines very vigorous and productive. Pods 5 to 6 inches long, filled with 4 or 5 immense white beans of the finest quality. On account of its large pods, it is a favorite with market gardeners. It will come into bearing sooner and will make larger pods if not more than 2 vines are left to grow on a pole. Seed very large, ovoid, flat, with slight greenish tinge. Pkt. 10c, pt. 25c, qt. 40c, pk. \$2.75, bu. \$9.00.

DREER'S IMPROVED or CHALLENGE

Vines stout, vigorous and productive. Pods about 4 inches long, shorter and comparatively thicker than those of the other pole limas, and contains 4 to 5 beans, which are large, thick, white and of the best quality. Pkt. 10c, pt. 30c, qt. 50c, pk. \$3.50, bu. \$12.00.

EXTRA-EARLY JERSEY

This is an extremely early variety, ripening 2 weeks earlier than any other sort. Pods are thin and very easily opened. The vine is very productive and exceptionally hardy and vigorous. The quality of the bean, its size and beauty make it one of the best. Pkt. 10c, pt. 25c, qt. 40c, pk. \$2.75, bu. \$9.00.

CARPENTERIA

This new bean, of recent introduction, is rapidly coming to the front as a favorite with market gardeners and truckers generally. While it has all the good qualities of the King of the Garden, it is even better, as the beans have a better appearance. Color is a bright green. It is early, yet keeps bearing until frost. Pods are filled with 4 to 5 large mealy beans, of the very finest flavor. Vines are vigorous and strong in growth, producing a number of pods, well filled. Pkt. 10c, pt. 25c, qt. 40c, pk. \$2.75, bu. \$9.00.

BUSH LIMA BEANS

CULTURE.—Soil should be of a rich loam. Plant in rows 2 feet apart and 6 inches in the row. Plant after all danger of frost has passed. A top dressing of well-rotted stable manure or some good fertilizer will help wonderfully.

FORDHOOK BUSH LIMA

The plant is vigorous and erect growing, bearing well above the ground. The pods are produced in large clusters, each containing 3 to 5 large beans of exceptionally fine quality. Pkt. 10c, pt. 30c, qt. 50c, pk. \$3.00, bu. \$10.50.

EARLY GIANT BUSH LIMA

Earlier than the Fordhook; larger and more prolific. Large upright vigorous plants. Pods contain 4 to 5 large plump beans. Pkt. 10c, pt. 30c, qt. 50c, pk. \$3.00, bu. \$9.50.

DREER'S BUSH LIMA

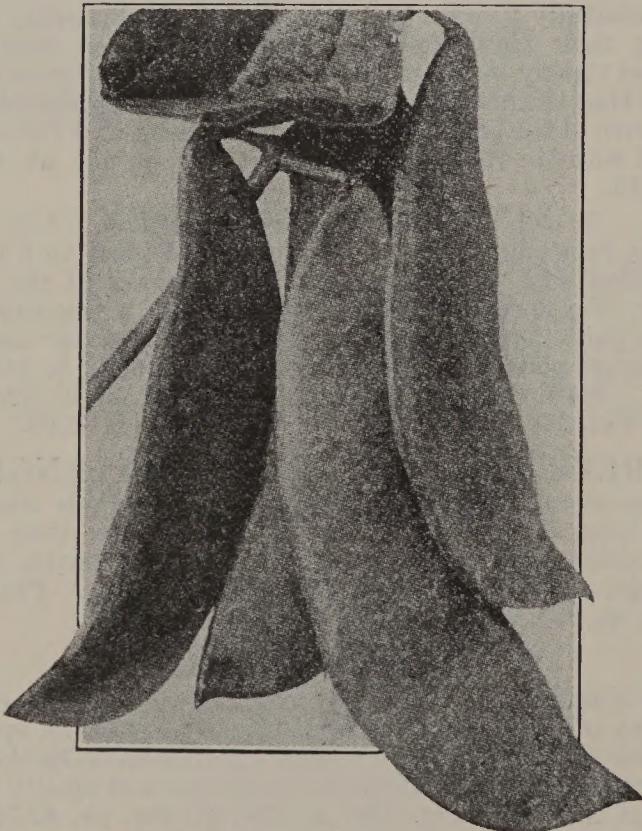
Dwarf variety of Dreer's Pole Lima, which has been fixed in its character of a bush bean; very prolific, single plants often producing 50 to 200 pods. Equal in quality and tenderness to Dreer's Pole Lima. Pkt. 10c, pt. 30c, qt. 50c, pk. \$3.00, bu. \$10.50.

BURPEE'S IMPROVED BUSH LIMA

Plant large, erect, vigorous, very productive; pods contain four to five seeds. Dry beans, large, plump, flat, color white with greenish tinge. Pkt. 10c, pt. 30c, qt. 50c, pk. \$2.75, bu. \$9.50.

HENDERSON'S BUSH LIMA

Known as the Baby Lima. They are very early and prolific, continuing to bear until frost. Pkt. 10c, pt. 30c, qt. 50c, pk. \$2.75.



Burpee's Improved Bush Lima

BEETS—MANGEL

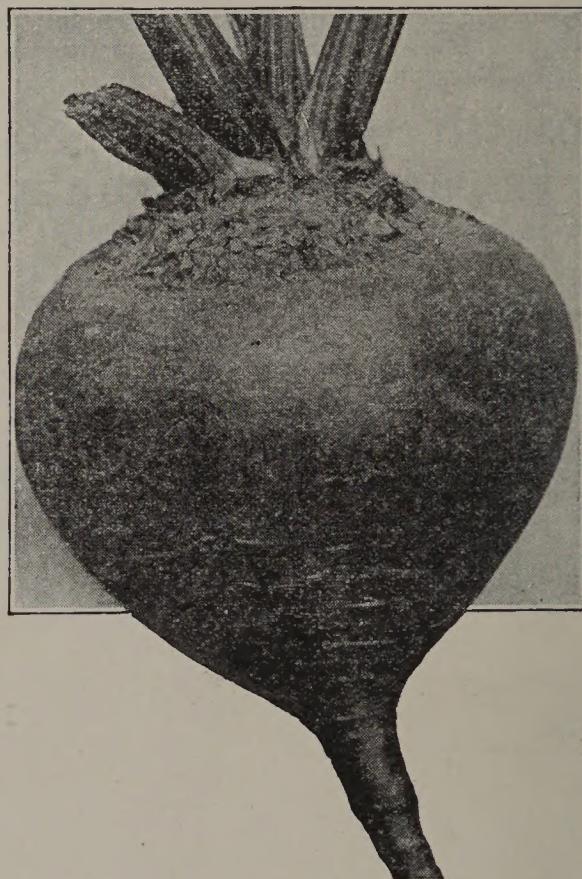
MAMMOTH LONG RED MANGEL.—This is an enormously productive variety, yielding from 50 to 70 tons to the acre, a single root often weighing from 20 to 40 pounds. It is the best long red Mangel. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 20c, lb. 50c, 5 lbs. \$2.00.

BEETS

CULTURE.—The soil best suited for Beet culture is that which is rather light and well enriched. Sow in drills 1 foot apart and 1 inch deep, as early as the ground can be worked. When the plants are large enough thin out to 4 inches apart in rows. One ounce of seed will sow 100 feet of drill. 6 to 8 pounds to an acre.

EARLY WONDER

Its qualities are extra early, dark red color, fineness of shape and small top. One of the most attractive varieties grown, and is especially desirable for hotbeds on account of its small top and close-growing habit. Very popular with market gardeners for early or late planting. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 25c, lb. 75c, 5 lbs. \$3.25.



Perfection Detroit Dark Red

PERFECTION DETROIT DARK RED

This improved strain of Detroit has proven to be without zones, of excellent quality, tender, sweet and quite free from tough fibre. The root is globe shaped, color dark blood red. Tops large, which makes a good bunching sort. Especially adapted for canning purposes. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 25c, lb. 90c, 5 lbs. \$4.00.

DETROIT DARK RED

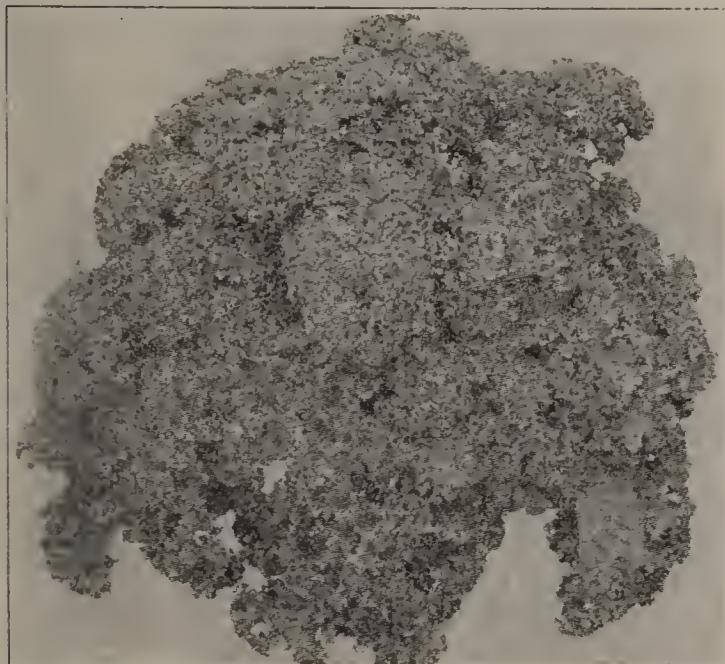
The uniformity of size, shape and fine appearance puts this variety at once among the leaders of this most desirable of all vegetables. Roots medium in size, globular or oval and very smooth; skin a dark blood red; flesh deep bright red, fine-grained, crisp, tender and sweet, remaining so long after many sorts become woody. Our special stock of this variety shows no white zones. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 25c, lb. 75c, 5 lbs. \$3.25.

CROSBY'S EGYPTIAN

* A carefully selected strain of Egyptian, as early as the original, but larger, thicker, smoother, and of better quality. Flesh deep blood red. It is a rapid grower, attaining a usable size quicker than any other variety, and does not become woody with age. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 25c, lb. 75c, 5 lbs. \$3.25.

BORECOLE

Extensively grown in this locality and also in the South during the Fall, Winter and Spring. The plant is more hardy than cabbage, and makes excellent greens for Winter and Spring use. The quality is improved rather than injured by frost. One ounce of seed will sow a drill of about 150 feet. Should be grown like cabbage. The lower leaves are generally stripped and this allows the plant to continue growing to furnish more during the season.



Dwarf Curled Scotch

DWARF GREEN CURLED SCOTCH

Plant low and compact, but with large, bright, deep green leaves, curled, cut and crimped until the whole plant resembles a bunch of moss. One of the best sorts for use, when well grown and cooked is one of the most palatable of vegetables. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 25c, lb. 75c.

DWARF CURLED SCOTCH

(Blue Strain)

Grows very similar to above, except that the low growing, moss-curled leaves are of a dark blueish green color. Extremely hardy. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 25c. lb. 75c.

TALL GREEN CURLED SCOTCH or HARDY WINTER

This is the most popular variety for market gardeners and the home garden as well, in that it grows taller; about 18 inches to 2 feet, bearing long plume-like light green leaves. Deeply cut, finely curled at edges. Very hardy. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 30c, lb. \$1.00.

BRUSSELS SPROUTS

This vegetable is used in the Fall and early Winter and by some considered more tender and delicious than any cabbage. The plant resembles the cabbage, the edible part being the numerous very small heads or sprouts, an inch or two in diameter, formed on the stalk at each leaf joint. Culture is the same in all essentials as the cabbage, except the leaves should be broken down in the Fall to give the little heads more room to grow.

IMPROVED TALL

Produces very many good sized solid round sprouts, of the best quality. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 60c, lb. \$2.00.



Brussels Sprouts

SWISS CHARD or SPINACH BEET

Plant the seed about the same as beet seed; in rows about 12 to 18 inches apart, when the plants are large enough, thin out to about 6 to 8 inches in the row. One ounce of seed to 100 feet of row.

GIANT LUCULLUS

Large, smooth leaves with silvery white stems, which are tender and of fine flavor. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 25c, lb. 75c.

FORDHOOK GIANT

A new variety with curled leaves like a Savoy cabbage. The plant grows nearly two feet high. The ribs are quite large, white, and of fine quality. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 25c, lb. 75c.

BROCCOLI

TRUE ITALIAN CALABRESE or HEADING



Italian Calabrese

A tall branching plant forms a head of bluish-green flower buds resembling a loose head of Cauliflower. A very delicious vegetable, producing large heads which if kept cut will produce other small heads for several weeks. Cultivate like you would Cauliflower. There are a number of strains of Broccoli and some varieties are not desirable and great care should be taken in order to be sure you get the right sort. The strain we offer is the True Calabrese or Heading. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 60c, lb. \$2.25.

ITALIAN SALAD or SPROUTING

Sometimes called and looks like Seven Top Turnip, but yields more abundantly. The seed should be sown about the middle of August in rows about 32 inches apart or broadcast at the rate of 2 to 3 pounds per acre. The sprouts will be ready for market about the latter part of February or the first part of March. Makes a most excellent salad with a taste peculiarly its own and commands a fancy price. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.25.

COLLARDS

GEORGIA or SOUTHERN

Called the Cabbage Collard on account of its close bunching growth. The plant produces center leaves generally perfectly white, though sometimes dashed with pink. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 20c, lb. 59c.

CRESS

AMERICAN IMPROVED UPLAND

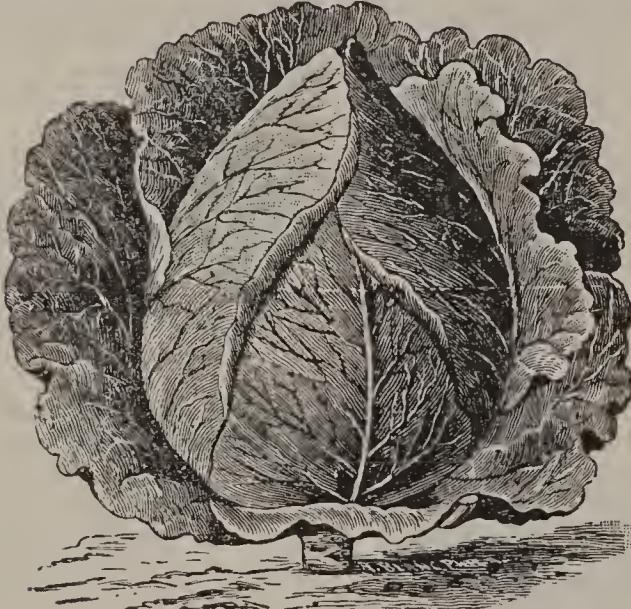
The perennial variety that stays green all the year. Boil like greens or serve like salad. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.25.

TRUE WATER

Highly esteemed as a salad during the Spring and Fall, and as a garnish for meats during the Winter. Pkt. 10c, oz. 50c.

CABBAGE

The requisites for complete success with Cabbage are: First, good seed. Second, rich, well-prepared ground. (A heavy, moist and rich loam is most suitable). Third, frequent and thorough cultivation. The ground should be highly manured and worked deep. Our Cabbage Seeds are American-grown, and we are certain that better seed could not be obtained. One ounce of seed to 100 yards of row.



EARLY JERSEY WAKEFIELD

The earliest and surest heading of first early Cabbage. Plant compact, with few outer leaves, which are smooth and thick. Heads of medium size, solid, uniformly pointed and of excellent quality. The habit of growth and hardiness make it most desirable for early planting. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb 60c, lb. \$2.00.

JERSEY QUEEN

The same habit of growth as the Jersey Wakefield, except that it is Yellows Resistant. Pkt. 10c, oz. 30c, $\frac{1}{4}$ lb \$1.00, lb. \$3.25.

WISCONSIN ALL SEASONS

Recommended very highly as a mid-season variety, has all the good Qualities of the All Seasons and is Yellows Resistant. Pkt. 10c, oz. 30c, $\frac{1}{4}$ lb. .90, lb. \$3.00.

GOLDEN ACRE

Extremely early flat head. It matures much earlier than Copenhagen Market and heads much larger and more compact. Few outer leaves, allowing closer planting. Pkt. 10c, oz. 30c, $\frac{1}{4}$ lb. 75c, lb. \$2.50.

CHARLESTON, or LARGE WAKEFIELD

A strain in which the plant is larger and a little later than Early Jersey Wakefield, the head being fully as solid, but less pointed and considerably larger. Leaves rather large, smooth and comparatively thick. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 60c, lb. \$2.00.

COPENHAGEN MARKET

Very fine, nearly as early as Jersey Wakefield; stem short, heads large, round and solid, with few outer leaves of an upright growth. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 60c, lb. \$2.00.

MARION MARKET

A Yellows Resistant strain of Copenhagen Market. Larger and coarser in plant, and not so early, but with the round head and crisp tenderness of the parent cabbage. Pkt. 20c, oz. 40c, $\frac{1}{4}$ lb. \$1.25, lb. \$4.50.

ALL HEAD EARLY

The largest of the early Cabbages, being roundish flat and very solid. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 60c, lb. \$2.00.

EARLY FLAT DUTCH

Very compact grower, with a medium-size, roundish, flat head, which is always solid. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 60c, lb. \$2.00.



PERFECTION DRUMHEAD SAVOY

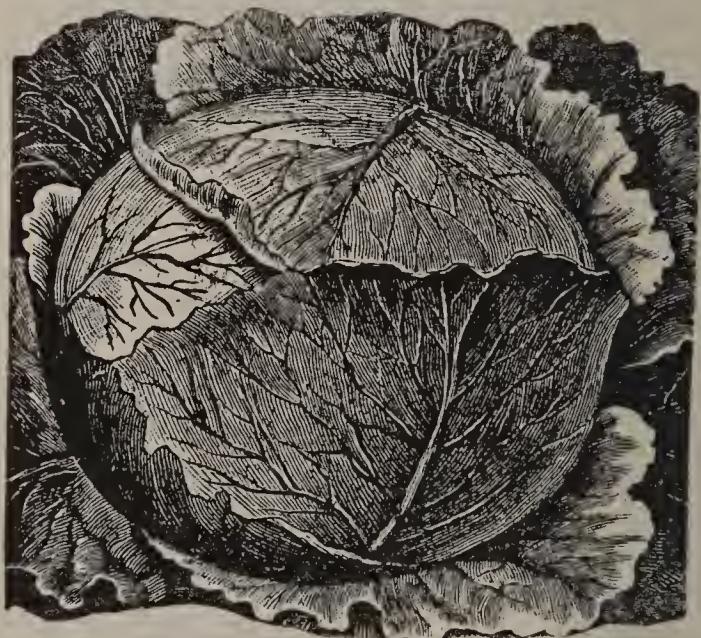
This is without a doubt the finest strain of the Savoys on the market. No other winter cabbage can compare with it in flavor, particularly after it has been touched by frost when it is equal to cauliflower. Large heads. Leaves extremely curled. Beautifully blanched. Do not plant the seed till June or early part of July if you wish to have good hard heads as it will not head up hard during very hot weather. Pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 75c, lb. \$2.50.

ALL SEASONS

This forms a fine large head, of superior quality, nearly as early as the Early Summer. Suitable for planting at any season. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 60c, lb. \$2.00.

SUCCESSION

Very popular with the market gardener, producing enormous, uniform heads, and matures a few days later than Early Summer. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 60c, lb. \$2.00.



PREMIUM LATE FLAT DUTCH

This variety of late Cabbage is a standard in all sections for Winter use. It makes a large, solid head, which keeps long without bursting, and is adapted to a more varied climate than probably any other variety. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 60c, lb. \$2.00.

RED ROCK

While late in maturing, this is the largest heading of all deep red varieties. Pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 75c, lb. \$2.75.

CHINESE CABBAGE

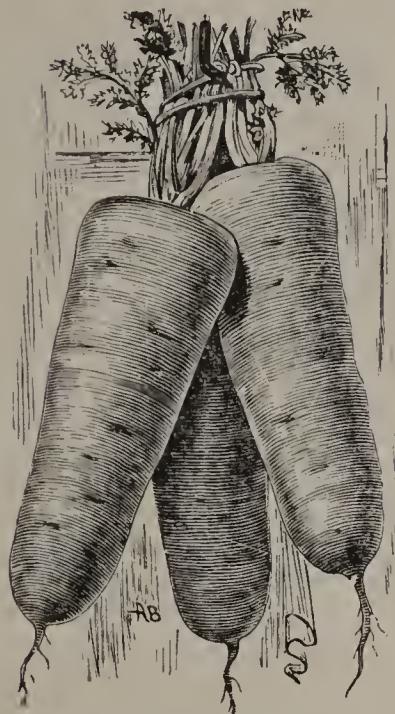
Sometimes called Celery Cabbage. A wonderful salad plant, growing 15 or 16 inches high, somewhat resembling Cos Lettuce or more like Swiss Chard. Plant the seed early in the Spring and again in July and August, transplanting 18 inches apart in $2\frac{1}{2}$ foot rows.

WONG BOK

This is the most popular variety. The hearts blanch to a creamy white. Every leaf, including the outside ones, is delicate and tender. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 50c.

CARROT

CULTURE.—While a sandy loam, made rich by manuring the previous year, is the best soil for the Carrot, any good land, if thoroughly and deeply worked, will produce satisfactory crops. It is advisable to sow as early in the Spring as the ground is fit to work, though good crops may be grown from sowings as late as June 15. The table use, sow the smaller kinds early in rows 16 to 18 inches apart. For field culture, sow in drills 18 to 24 inches apart, using from $1\frac{1}{2}$ to 3 pounds of seed to the acre. Cover $\frac{1}{2}$ to 1 inch deep. One ounce of seed to 100 feet of row.



Danvers Half Long

DANVER'S HALF LONG

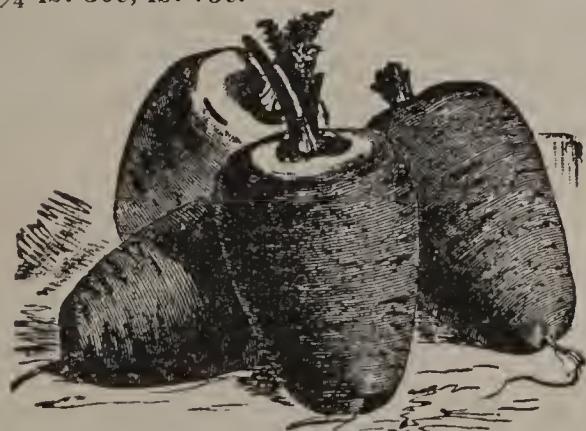
A half-long orange carrot, grown largely on account of its great productiveness and adaptability to all classes of soil. Tops of medium size. Roots of medium length, 6 to 8 inches long, tapering uniformly to a blunt point. Flesh deep orange crisp and tender. Although the roots of this variety are comparatively short, they produce as large a bulk as the longer field sorts and are more easily harvested. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 30c, lb. 85c, 5 lbs. \$3.75.

W. D. CO.'s. CORELESS

Tops of medium size; roots cylindrical, smooth, bright orange; flesh orange, becoming yellow in center, but with no distinct core. One of the handsomest of the medium size sorts; excellent for the market gardener or home garden. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 35c, lb. \$1.00.

GUERANDE or OX HEART

Especially desirable for soil so hard and stiff that long-rooted sorts would not thrive in it. Tops comparatively small. Roots 4 to 5 inches long, very thick, ending abruptly in a small tap root. Flesh bright orange, fine-grained and sweet. When young the roots are excellent for table use, and when matured are equally good for stock feeding. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 30c, lb. 75c.



Guerande, or Ox Heart

CHANTENAY or PRIDE OF THE MARKET

Very productive, medium early and of excellent quality. Tops medium-sized; necks small. Roots thick, $5\frac{3}{4}$ to 6 inches in length, uniformly half-long or stump-rooted, but tapering slightly; smooth, deep orange color. Flesh very crisp and tender. Although a medium-early sort, the roots are suitable for use nearly as early as any. One of the best in quality for the market and home garden, while its great productiveness and the ease with which it can be harvested make it very desirable as a field sort. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 30c, lb. 85c, 5 lbs. \$3.75.

IMPERATOR

Roots 8 to 10 inches long and $1\frac{3}{4}$ to $2\frac{1}{4}$ inches across at shoulder. Cylindrical in shape and somewhat tapering, of deep orange color which extends right to center. The tops are just right for bunching. This is the variety that comes into our markets from California. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 30c, lb. 90c.



Chantenay, or Pride of the Market

IMPROVED LONG ORANGE

The roots of the strain we offer are very deep orange, long and comparatively thick, often 12 inches in length, and 3 inches in diameter at the crown, tapering regularly to a point. Tops small for the size of the root. Suitable for table use as well as stock feeding, combining great productiveness with uniform shape and fine-grained, sweet flesh. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 25c, lb. 75c.

RED CORE CHANTENAY

This is a distinct improvement over the well known Chantenay especially in color, texture, and quality of flesh and has been accepted with much enthusiasm particularly by shippers of fresh vegetables and by canners. Roots deep reddish-orange; $5\frac{1}{2}$ to 6 inches long, $2\frac{1}{4}$ inches thick at the shoulder, tapered, core reddish-orange, almost the same color as the flesh and so inconspicuous as to make the term coreless seem appropriate; flesh fine grained and tender; of sweet, delicate flavor. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 25c, lb. 85c, 5 lbs. \$4.00.

EARLY SCARLET HORN

Popular for early market. Tops small. Roots reddish-orange; 3 inches long, $1\frac{1}{2}$ inches at the shoulder and tapered to about 1 inch thick at the blunt end; flesh reddish-orange, fine grained, sweet, and tender. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 25c, lb. 75c.

CALIFORNIA BUNCHING

Tops short, foliage rather coarsely cut and stems medium size and strong. Roots at maturity are $1\frac{1}{2}$ by 8 inches in size, almost cylindrical, with rounded shoulders, and are well stumped. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 30c, lb. 85c, 5 lbs. \$3.75.

CAULIFLOWER

CULTURE.—For Spring and early Summer crop, sow in March or early in April in hotbed and transplant in cold frame when sufficiently large to handle. As soon as danger of hard freezing is over set in open ground in rows $2\frac{1}{2}$ feet apart and 18 inches apart in the row. The plants will endure a light frost. The soil for Cauliflower should be like that for cabbage, but it is better if made richer. One ounce will produce 1,500 plants.



EXTRA EARLY SNOWBALL

The best of the early maturing strains. The heads are of medium to large size, solid, compact and round. The curd is of fine texture. The plants are compact, with few outer leaves and are well suited for close planting. Pkt. 25 and 50c, oz. \$1.25.

DRY WEATHER

Dependable variety to plant at the same time as Early Snowball, the crop being ready when Snowball has been harvested; one of the most dependable in adverse, dry weather. Plants dwarf, short stemmed; heads large; 6 to 7 inches across, weighing as much as 2 lbs; white with tinge of cream; of splendid quality. Pkt. 25 and 50c, oz. \$1.25.

CHIVES

This popular kitchen garden plant is indispensable for flavoring certain dishes. It imparts a mild onion taste, not, however, to such an extent as to render it objectionable. The plants are hardy and will last for years. Don't cut the plant too close when gathering. If desired for Winter use, lift the plant in a pot or box and place in a sunny window in the kitchen. Pkt. 10c, oz 25c, $\frac{1}{4}$ lb. \$1.25.

CHICKORY

WITLOOF or FRENCH ENDIVE

Grown for its use as a salad, the blanched head resembling cos lettuce in appearance. Eaten raw or as a salad, also sometimes cooked like Endive. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 35c, lb. \$1.25.

CORN SALAD

A favorite salad plant and very hardy. Sow in August or September, and protect with leaves during Winter. It can be gathered in the Spring very early. Sown in April, it is soon ready for use. The leaves are sometimes boiled and served as spinach. Three ounces of seed to 100 feet of row. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 35c, lb. \$1.25.

CHERVIL

An aromatic plant, used extensively in Europe as a salad seasoner. It adds a flavor that is entirely its own. When chopped fine and scattered on buttered potatoes it is a rare treat. Sow it in a row like parsley, which it somewhat resembles. For a continuous crop, sow every 2 weeks.

One ounce will sow a row 25 feet long.
Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 35c.

Plants and Roots - Vegetable

We grow each year, thousands of vegetable plants of all kinds from our own seed stock and you will find each variety true to name. They are looked after with the utmost care, and in shipping are packed in moss, in strong cases, so we can guarantee safe delivery to our customers. Our list includes the following:

BEETS (Ready in April)

EARLY WONDER DETROIT DARK RED
LEXINGTON MARKET BEAUTY
50c per hundred. \$4.00 per thousand.

CABBAGE (Frost-proof)

These are not grown by us, but are shipped direct from the Southern growers. Ready for shipment in March and April.
EARLY JERSEY WAKEFIELD
CHARLESTON WAKEFIELD ALL HEAD EARLY
GOLDEN ACRE COPENHAGEN MARKET
40c per hundred. \$1.75 per thousand.

CABBAGE (Ready in May and June)

HOME GROWN

In addition to the above mentioned varieties, we can supply:

SUCCESSION ALL SEASONS DRUMHEAD SAVOY
PREMIUM LATE FLAT DUTCH
50c per hundred. \$2.00 per thousand.

CAULIFLOWER (Ready in April)

EXTRA EARLY SNOWBALL
25c per dozen. \$1.50 per hundred.

CELERY (Ready in July)

GOLDEN SELF BLANCHING WINTER QUEEN
WHITE PLUME GOLDEN PLUME GIANT PASCAL
75c per hundred. \$5.00 per thousand.

EGGPLANT (Ready in May and June)

BLACK BEAUTY

POT GROWN PLANTS.—5c each, 50c per dozen, \$4.50 per hundred.

DRAWN PLANTS.—20c per dozen, \$1.00 per hundred.

LETTUCE—All Varieties (Ready in April, May, September and October)
50c per hundred. \$3.50 per thousand.

PEPPER (Ready in May and June)

BULL NOSE CALIFORNIA WONDER CHINESE GIANT
POT GROWN.—5c each, 50c per dozen.
DRAWN PLANTS.—15c per dozen, \$1.00 per hundred.

SWEET POTATO PLANTS

(Ready in May and June)

BIG STEM JERSEYS

60c per hundred. \$3.00 per thousand.

TOMATO

MARGLOBE BONNY BEST NEW EARLY RED
NEW STONE WILPROOF
GREATER BALTIMORE SCARLET TOPPER
HOT BED PLANTS.—Ready in April and May. 75c per hundred, \$4.00 per thousand.

FIELD GROWN PLANTS.—Ready in June and July. 50c per hundred, \$3.00 per thousand.

RHUBARB ROOTS

10c each. \$1.00 per dozen.

HORSE RADISH ROOTS

MALINER KREN

25c per dozen. \$1.25 per hundred.

NOTICE.—Plants will not be forwarded C. O. D. Plants are not quoted by express prepaid; the customer pays express charges, and unless otherwise instructed, plants will be forwarded by express. Cash must accompany all orders for plants. If plants are wanted sent by Parcel Post, add 10c per hundred to above prices.

CELERY

CULTURE.—Sow in hotbeds in March or in open ground in April. See that no weeds infest the seed bed. When 3 inches high transplant in a bed outdoors in rows 3 inches apart each way; let them remain here until July, when they should be planted where they are to mature, in rows 3 feet apart, 6 inches apart in the row. One ounce of seed will produce 2,000 plants.



Golden Self Blanching

GOLDEN SELF BLANCHING

This is undoubtedly the most popular variety for the market gardener and also the home garden. It is unexcelled and absolutely reliable and our rapidly increasing trade is abundant evidence of its high quality. It is now the leading sort on all markets as an early Celery. For market use it is preferred to White Plume, because it does not wilt so soon, and its rich yellow color is very attractive. The stalks are heavier, of a fine nutty flavor, attains a good size, and it comes into market almost as soon as any other sort. It is of dwarf, compact habit and blanches readily. Pkt. 10c, oz. 30c, $\frac{1}{4}$ lb. 90c, lb. \$3.00.

GOLDEN PLUME

This variety comes in for use at Christmas, and keeps well into the Spring. Large heavy stalks and very nutty. The heart or inner stalks are a rich golden yellow. Easy to blanch, a good keeper and always of the crisp, brittle and nutty quality so much desired. Pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 90c, lb. \$3.00.

WHITE PLUME

It is the earliest Celery in cultivation. It is distinct from Golden Self-Blanching in being taller in growth, more slender in stalk, and branches to a pure snowy whiteness. It is a valuable market sort on account of its extreme earliness, but is not as good a keeper nor has it so fine a flavor as the Golden Self-Blanching. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 60c, lb. \$2.00.

WINTER QUEEN

A medium-tall, solid variety; will retain its qualities long through the Winter. The heart is very full and large. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 60c, lb. \$2.00.

GIANT PASCAL

A tall, late green celery of excellent quality. Leaf stalks thick and solid. Considered one of the very best for late winter market. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 60c, lb. \$2.00.

EASY BLANCHING

Excels in the qualities that give self-blanching celeries their value. It bleaches earlier and quicker than any of this class; it is the longest keeping variety grown (if put away green), excelling in this respect every other sort. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 60c, lb. \$2.00.

EMPEROR

A very special strain of late keeping Celery for Winter use. Of dwarf type averaging 18 inches in height, with thick white stalks and large, solid, pale yellow heart. Very crisp, with no stringiness, and of splendid flavor. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 60c, lb. \$2.00.

CELERIAC

CULTURE.—Sow the seed at the same season and give the same treatment as Celery. Transplant to moist, rich soil, in rows 2 feet apart and 6 inches apart in row. It is not necessary to blanch the plants.

LARGE SMOOTH PRAGUE



This is the best and largest of the Celeriacs. Almost round, like a turnip, with very few roots. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 60c, lb. \$2.00,

CELERY SEED (For Flavoring)

For use in sausage pickles, soups, etc. $\frac{1}{4}$ lb. 10c, lb. 30c.

CELERY PLANTS

Can supply all the leading varieties, during July and August.

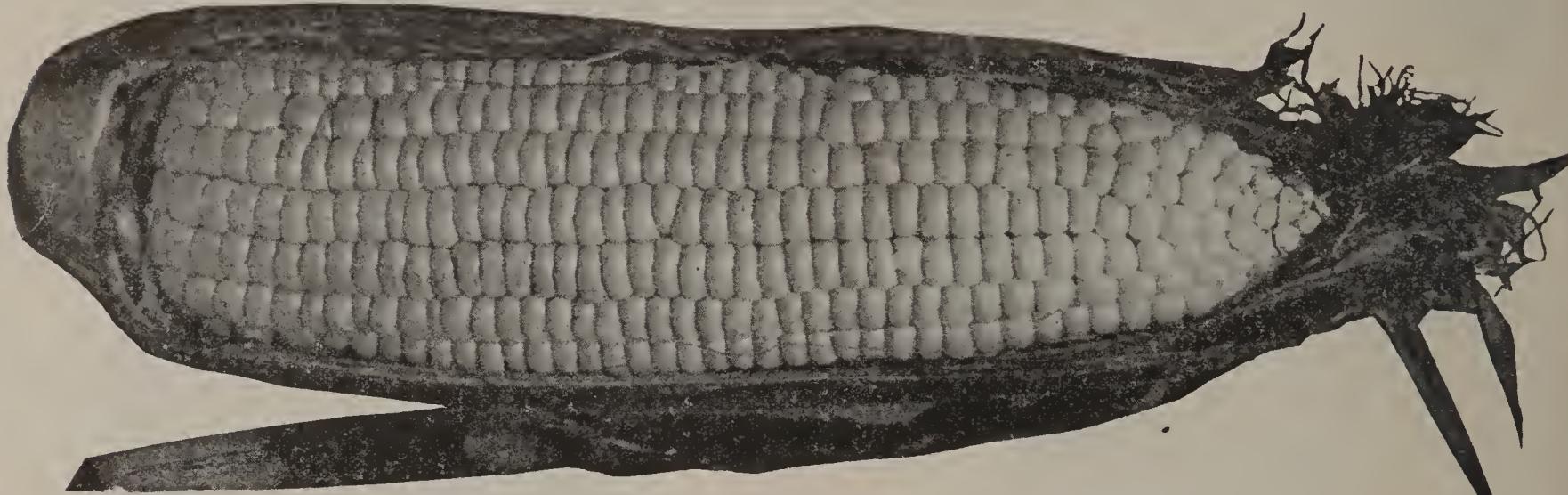
Per 100.....75c. Per 1,000.....\$5.00.

If wanted by Parcel Post, add 15c per hundred for packing and parcel post.

SWEET or SUGAR CORN

CULTURE.—Sugar Corn can be raised on any good, ordinary soil if it is deeply and well worked before planting. Give frequent and thorough but shallow cultivation until the tassels appear. Plant in rows about 3 or 4 feet apart

and about 3 feet apart in the row. Leave not more than 3 plants to the hill. It can be planted from first of May to last of July for a succession of crop. Sow about 8 quarts to an acre.



Stowell's Evergreen

EARLY EVERGREEN

A fine new sort; identical in flavor, shape and size of grain with Stowell's Evergreen, but about 10 days earlier. The ears grow about 9 inches long, are mostly 12-rowed, and remain tender a remarkably long time. Pkt. 10c, pt. 20c, qt. 35c, pk. \$1.75, bu. \$5.50.

WHITE EVERGREEN

This is a high-bred white-type Stowell's Evergreen. It has been developed by careful work, only the finest white-eared product being saved and selected each season. The stalks are of strong vigorous growth, 6 to 7 feet high. Pkt. 10c, pt. 20c, qt. 35c, pk. \$1.75, bu. \$5.50.

ZIG-ZAG EVERGREEN

This fine new strain possesses the distinct characteristics which have made Stowell's Evergreen so deservedly the favorite for main crop, but produces ears fit to use from 1 week to 10 days earlier. Pkt. 10c, pt. 20c, qt. 35c, pk. \$1.75, bu. \$5.50.

EARLY CHAMPION

An excellent second-early sort, ears 6 to 8 inches long, 12-rowed and kernels pure white; usually two ears to the stalk. Pkt. 10c, pt. 25c, qt. 40c, pk. \$1.75, bu. \$6.00.

HOWLING MOB

A big-eared early corn with the sweet flavor of the late varieties; ears 7 to 9 inches long; usually two pearly white ears to the stalk; the shuck extends well over the tip and protects it from the green worm so destructive to early sweet corns. Pkt. 10c, pt. 20c, qt. 35c, pk. \$1.75, bu. \$5.50.

EARLY SHEFFIELD

This is one of the standard old varieties that has become wonderfully popular, both in quality and yield it is sure to delight all lovers of choice early Sweet Corn. Pkt. 10c, pt. 20c, qt. 35c, pk. \$1.75, bu. \$5.50.

WHIPPLE'S EARLY WHITE

Grows a very large attractive ear, usually about 9 inches, of a creamy-white color. Sweet, tender and juicy. Pkt. 10c, pt. 20c, qt. 35c, pk. \$1.75 bu. \$5.50.

WHIPPLE'S EARLY YELLOW

Same as above in earliness, size and sweetness. Yellow grain. Pkt. 10c, pt. 25c, qt. 40c, pk. \$1.75.

GOLDEN BANTAM

The best and most favorably known of all the yellow varieties. Stalks often have 2 ears. Ears 8 rowed; kernels broad and of very fine flavor. Pkt. 10c, pt. 20c, qt. 35c, pk. \$1.75.

GOLDEN CROSS BANTAM—(Hybrid)

Hybrid Corns are better yielders, produce larger and better filled ears of even size and shape; two to the stalk; 12 to 14 rows to the ear. Golden cross bantam is the most outstanding and best adapted hybrid sweet corn. Pkt. 25c, pt. 35c, qt. 60c, pk. \$3.00.

GOLDEN GIANT

As its name implies this is the largest of the yellow sugar varieties, the ears measuring up to 8 inches long. The cob is of small diameter, and contains twelve to eighteen rows of long, thick grains which cover the entire surface and are deep orange in color, extremely juicy and sweet. Pkt. 10c, pt. 25c, qt. 40c, pk. \$1.75.

COUNTRY GENTLEMAN

The ears are somewhat smaller and less showy than the coarser varieties but for private family use, where quality is preferred to size, it has no equal. The cob is very small, giving great depth to the grain. Matures about the same time as Stowell's Evergreen. Pkt. 10c, pt. 20c, qt. 35c, pk. \$1.75, bu. \$5.50.

SELECT STOWELL'S EVERGREEN

The most popular of all. If planted at the same time with earlier kinds will keep the table supplied until October. It is hardy and productive, very tender and sugary, remaining a long time in a fresh condition for cooking. In fact, it is so well known that it needs no further description. Pkt. 10c, pt. 20c, qt. 35c, pk. \$1.75, bu. \$5.50.

EXTRA EARLY VARIETIES

(Not Sugar Corn)

ADAM'S EXTRA EARLY

Pure white, medium-sized ears. Not a sugar corn. Planted extensively by market gardeners, as it matures in about 65 days after germination. Pkt. 10c, pt. 15c, qt. 25c, pk. \$1.25, bu. \$4.25.

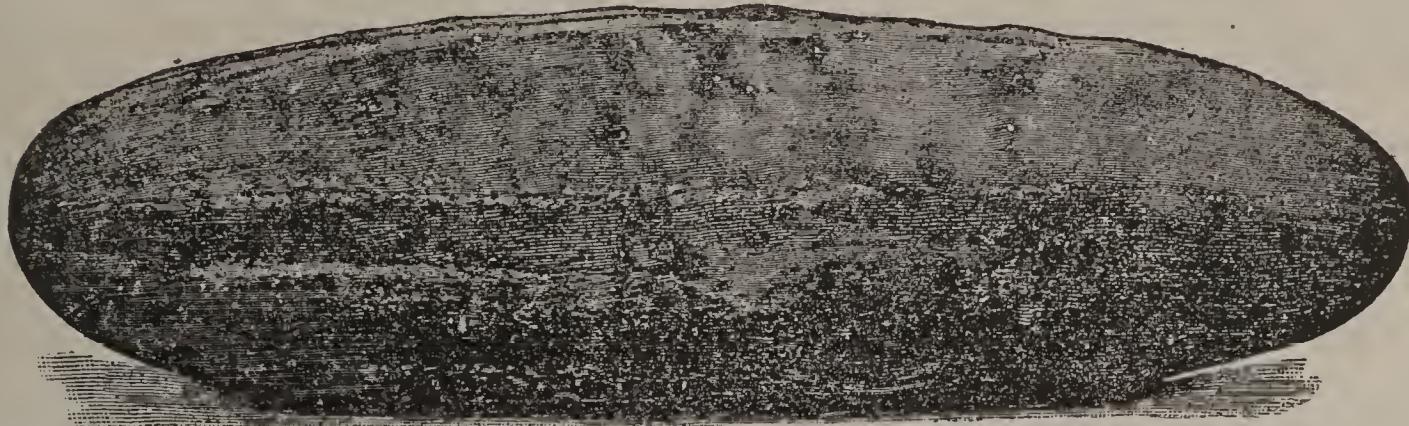
NINETY-DAY (Red Cob)

This sort, while not a sugar corn, is planted almost exclusively as a table corn. It matures in 90 days, and if weather conditions are just right, will often be ready to cut in 80 to 85 days. Cob red, ears large, grain large, white. Pkt. 10c, pt. 15c, qt. 25c, pk. \$1.25, bu. \$4.00.

C U C U M B E R

CULTURE.—Cucumbers succeed best in rich loamy soil. As soon as the weather becomes warm and settled, plant in hills 4 to 6 feet apart each way, with 10 to 12 seeds in a hill; cover $\frac{1}{2}$ inch deep. Air-slaked lime sprinkled on the plants every few days as soon as they are up will protect them

from the striped beetle. When 3 or 4 inches high, thin out plants, leaving 3 or 4 of the strongest to each hill. The fruit should be picked when large enough, otherwise it destroys the productiveness. One ounce to 50 hills; 2 pounds per acre.



Longfellow or Straight Pack

LONGFELLOW or ST RAIGHT PACK

An excellent long, slender, dark green variety equally desirable for greenhouse forcing or out door culture. An ideal type for the private garden or as a "straight pack" variety for shipment to market. 12 to 14 inches long by $2\frac{3}{4}$ inches in diameter. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 40c, lb. \$1.25.

KLONDIKE

This is a true and distinct sort, not to be compared with the White Spine. It is entirely different, in that it holds its greenish color longer, is earlier and has a much better appearance. It is one of the best for truckers as well as for the home garden. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.00.

CLARK'S SPECIAL

An exceptionally good variety for shipping and for market gardeners. Holds its color and firmness when shipped long distances. Very dark green, handsome fruits, $8\frac{1}{2}$ to 10 inches long, slightly tapered at both ends; flesh crisp and firm; remains edible for very long time; few seeds. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 35c, lb. \$1.00.

IMPROVED LONG GREEN

Of excellent quality, dark green, firm and crisp. Very popular with the market gardeners. A standard pickling sort. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 30c, lb. 90c.

STRAIGHT "8"

Desirable for home and market gardens, also shipping. Fruit uniformly cylindrical, rounded at ends, medium green, quite free from light stripes. An attractive variety. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 30c, lb. \$1.00.

BOSTON PICKLING

A very popular variety for pickling, also good for slicing. Very early and prolific, medium green, 6 to $6\frac{1}{2}$ inches long, slightly tapered. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 90c, lb. \$1.00.

ARLINGTON WHITE SPINE

This strain of White Spine has been improved by careful selection. Rich green color, and a very prolific bearer. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 30c, lb. 90c.

EARLY FORTUNE

The finest type of White Spine yet produced. Early, very productive and disease-resistant; fruits nine inches long, slightly tapering; flesh white, very firm and crisp, with very few seeds; color rich, dark green, which does not fade when shipped a long distance. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 35c, lb. \$1.00.

DAVIS PERFECT

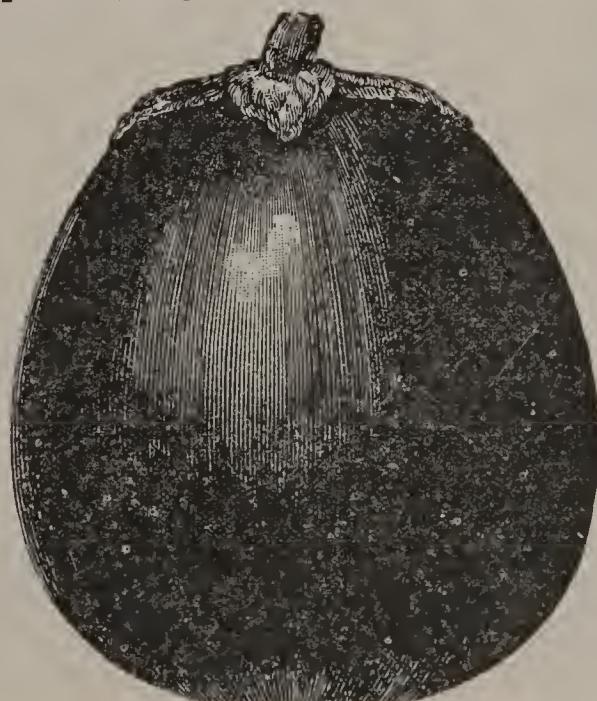
A desirable mid-season variety for shipping. Fruits dark green, weigh 2 pounds, tapered at both ends; flesh crisp and of good quality. Matures in 58 days. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 30c, lb. \$1.00.

GHERKIN or BURR

A very small, oval, prickly fruited sort, quite distinct from all others and grown exclusively for pickles. It is the smallest of all the varieties, and should always be picked when young and tender. Seed distinctly smaller than other Cucumbers, and is slow to germinate, requiring usually from 2 to 3 weeks. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 50c.

E G G P L A N T

CULTURE.—Eggplant seed germinates slowly and should be started in hotbed, for in this, as in all subtropical plants, it is of importance to secure a rapid and continuous growth from the first, the plants never recovering from a check received when young. When the plants have formed 2 rough leaves, transplant to 3 or 4 inches apart. When all danger, not only of frost, but from cold nights is past, harden off the plants by gradual exposure to the sun and air, and decreasing the supply of water; then transplant to the open ground setting the plants $2\frac{1}{2}$ feet apart. One ounce will produce about 1,000 plants.



BLACK BEAUTY

Fruits large, symmetrical in shape and uniformly of a rich dark purple color, which it holds an exceptionally long time, making the variety very desirable for the market. Pkt. 10c, oz. 35c, $\frac{1}{4}$ lb. \$1.00 lb. \$3.50.

ENDIVE

CULTURE.—Endive is an excellent Autumn and Winter salad. Sow seed late in the Spring, or even as late as July, in shallow drills, 15 inches apart, and when plants are strong thin out to about a foot apart. To blanch, gather up the outer leaves over the center of the plant and tie them together at their tips. Sow 1 ounce to 100 feet of drill.

GREEN CURLED

The hardest variety. The finely divided leaves are of a dark green color, giving it a mossy appearance; easily blanched to a fine white. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 30c, lb. \$1.00.

BROAD LEAF BATAVIAN (Escarolle)

The broad leaves, twisted and waved, are of bright green with middle ribs nearly white. The inner leaves blanch to a creamy white. Tie up for blanching. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 30c, lb. \$1.00.

FULL HEART BATAVIAN

A distinctly improved form of Broad Leaf Batavian. Plant medium large, with deep, full, compact, well-balanced heart of infolded broad leaves, thick and buttery in texture and of splendid quality. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 30c, lb. \$1.25

FENNEL (Finocchia)

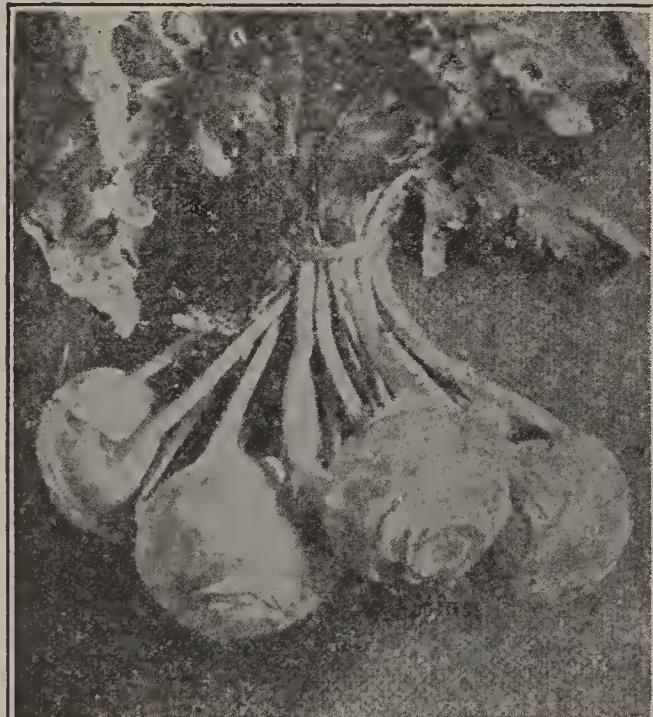
CULTURE.—Plant the seed and treat about the same way as for Celery.

FLORENCE FENNEL

Valuable for home and market gardens. The plants grow quite bushy, about 3 feet high, with broad overlapping leaves forming a bulb-like root or vegetable at the base of the stem, which is frequently used as a celery, is sweet and aromatic. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 50c, lb. \$1.50.

KOHL-RABI

CULTURE.—This is a favorite vegetable in Europe, where it is extensively grown for feeding cattle as well as for table use. The bulb is formed above the ground, and if used when young and tender, makes a most delicate dish for the table. One ounce will sow 150 feet of drill.



EARLIEST WHITE VIENNA

Greenish-white outside, with clear white flesh within. Smooth short leaf; good for forcing fine quality. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 50c, lb. \$1.50.

KALE

Extensively grown in this locality and also in the South during the Fall, Winter and Spring. The plant is more hardy than cabbage, and makes excellent greens for Winter and Spring use. The quality is improved rather than injured by frost. One ounce of seed will sow a drill of about 150 feet. Usually sown broadcast, 4 to 5 pounds per acre.

SIBERIAN CURLED

A finely curled, spreading, low-growing variety. The leaves, when properly cooked, make a very palatable dish of greens. The plant is very hardy. The leaves are long and of an attractive, bright green color. Oz. 10c, $\frac{1}{4}$ lb. 20c, lb. 50c, 5 lbs. \$1.75.



SLOW-SEEDING SIBERIAN CURLED

As its name implies, it is a long standing or slow seeding variety; being a decided improvement over the old Siberian Curled, in that it not only stands longer before going to seed but it is also more beautifully curled. It is a hardy, vigorous sort and will almost stand zero weather. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 25c, lb. 75c, 5 lbs. \$3.25.

SMOOTH LEAF or SPRING KALE

A hardy, quick growing, smooth leaf variety. For succession, should be sown about every 10 days in order to have it young and tender. Oz. 10c, $\frac{1}{4}$ lb. 15c, lb. 30c.



LEEK

CULTURE.—Sow the seed and care for the young plants same as for onions, but they need a little more room. One ounce to 150 feet of row.

LARGE AMERICAN

Produces a large, thick stem and of mild flavor. Pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 60c, lb. \$2.25.

LONDON FLAG

One of the hardest and best for Winter use. Pkt. 10c oz. 25c, $\frac{1}{4}$ lb. 60c, lb. \$2.25.

LETTUCE

CULTURE.—Lettuce seed germinates very quickly and may be planted as soon as the ground is workable in the early Spring. The seed should be sown in rows about 18 inches apart, covering not more than $\frac{1}{2}$ inch deep. The loose leaf type may be thinned to an inch or so apart as soon as a few leaves are formed, and when large enough for the table, they may be thinned as used. Lettuce to be at its best, should be grown as rapidly as possible; hence the soil should be made as rich and friable as possible by liberal manuring and thorough preparation. For Winter, sow under glass from November to February and thin out as necessary to prevent crowding. Keep a moderate heat and give all the light and air possible. One ounce will produce about 2,000 plants.

BIG BOSTON

Popular for outdoor culture; also much in demand as a compact, large-heading, forcing sort. Plants large, very hardy and vigorous. Leaves broad, comparatively smooth, but wavy at edge, thin, very hard and crisp. Color bright light green, the head slightly tinged with reddish-brown. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 30c, lb. \$1.00.



NEW YORK or WONDERFUL

The outstanding shipping variety, commonly called Iceberg by the produce trade. A large, globe shaped, curled, heading lettuce with dark green leaves of a very thick texture. Heads are well blanched, sweet and of excellent quality. The seed we offer is of a special strain and is noted for large size heads. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 50c, lb. \$1.50.

WHITE BOSTON OR UNRIVALLED

This new variety differs from the regular Big Boston as it does not have the red tinge on the edge of leaves. Suitable for planting in early Spring or Fall. Leaves are of a greenish white, very large handsome heads. Pkt. 10c oz. 20c, $\frac{1}{4}$ lb. 50c, lb. \$1.50.

GRAND RAPIDS

The plant is upright and forms a loose cluster of large, thin, bright green leaves, savoyed, finely crimped at edges. The leaves do not wilt quickly after cutting, so that the variety will stand shipping long distances better than most sorts. Very attractive and desirable for garnishing. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.25.

SIMPSON'S EARLY CURLED

Leaves light green, slightly frilled and much blistered, crisp, sweet and tender. Especially adapted for sowing thickly and cutting when the plants are young. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.25.

W.-D. CO.'S SUMMER HEADER

Will stand the summer heat better than most sorts, and will make beautiful solid heads. Leaves are of a beautiful green and are very tender and buttery. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.25.

ALL SEASONS

One of the best year round lettuces suitable for planting in Spring, Summer, or Fall. Stand the heat well. Heads green, with inner leaves of golden yellow. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 30c, lb. \$1.00.

MAY KING

A handsome, extremely early, compact, cabbage or heading variety, forming very firm heads of medium size and excellent quality. Color light yellowish-green, tinged with reddish-brown when mature. Inner leaves blanch rich golden yellow; very tender and buttery. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 30c, lb. \$1.00.

ROMAINE or PARIS WHITE COS

Cos Lettuce is distinct in having long, narrow, spoon-shaped leaves, folding into loose, sugar loaf-shaped heads, which blanch better by having the outer leaves drawn about them and tied. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 30c, lb. \$1.00.

DEFIANCE

This sort stands the Summer heat better than any other. Forms very large and firm heads. Pkt. 10c oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.25.

PRIZEHEAD

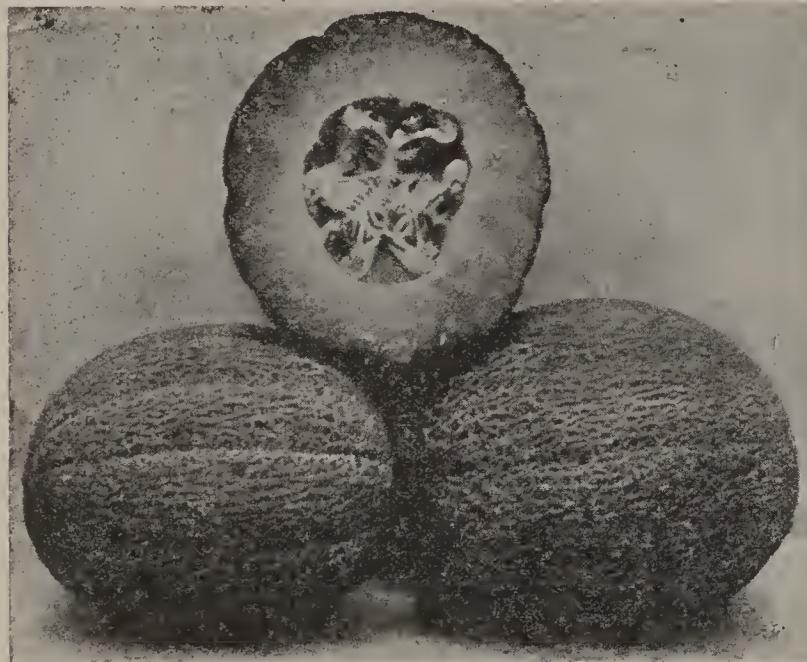
Medium sized plant composed of many curled leaves. The leaves are bright green, well bronzed at the edges. Grows quickly and has a fine flavor. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.25.

MUSKMELONS or CANTALOUPES

CULTURE.—Plant the seeds in hills about 5 feet apart each way, dropping 8 to 10 seeds in a hill. After the plants are up about 3 inches, thin to 1 of the most vigorous plants in the hill. Plant after all danger of frost is passed. Select medium to light soil. One ounce will plant 50 hills, 2 pounds per acre.

EXTRA-EARLY KNIGHT

Slightly larger than the "Rocky Ford," but more heavily netted. The seed cavity is small and flesh, which is green, thick and sweet, containing a high percentage of sugar. An important feature of this melon is its ability to withstand rust and blight, as it is nearly proof against either. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 30c, lb. \$1.00.



THE BOTTOMLEY

In quality it has no rival. From 7 to 8 days later than the Knight. The vine makes a very heavy growth, which makes it blight-resisting. Fruit very uniform in size, averaging about 7 inches in length from stem to blossom end. Very thick-meated, of a greenish color. Small seed cavity; thin rind, beautifully netted. Slightly pointed at the stem end and rather blunted at the blossom end. For shipping it is unexcelled. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 35c, lb. \$1.25.

W.-D. CO.'S LONG JOHN

A late variety, longer than the Bottomley, hence, its name. Heavily netted, greenish flesh, flavor very sweet, very productive. Vines of vigorous growth and quite free of rust or blight. Grown from our own seed stock. We highly recommend this variety to the trucker. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 35c, lb. \$1.25.

ROCKY FORD

A comparatively small green fleshed melon of the oval type, and ideal for serving in halves. Strong and vigorous in its growth and an abundant yielder. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 35c, lb. \$1.00.

HALE'S BEST

A Salmon Fleshed Melon. Broad oval fruit, $6\frac{1}{2} \times 5\frac{1}{2}$ inches. Densely covered with medium heavy netting and almost entirely without ribs. Extensively grown in California. Deliciously sweet and spicy. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 35c, lb. \$1.25.

HONEY DEW

The melon with an appropriate name. This new melon is unlike the ordinary Muskmelon or Cantaloupe, both in appearance and flavor, the outer skin being smooth, hard and nearly white. The melons are large, round to oval in shape, extremely thick-meated and have a very small seed cavity; flesh is light green, very solid and of a rich honey-like flavor, luscious and juicy. Of good keeping qualities and a good shipper. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.50.

MUSTARD FORDHOOK FANCY

A handsome, vigorous growing, mild variety, standing a long time before going to seed; leaves dark green, beautifully curled and fringed; fine for salads and garnishings; seed reddish-brown. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 20c, lb. 60c.

SOUTHERN GIANT CURLED

Plant vigorous and hardy, of upright spreading growth; leaves large, light green-tinged yellow, much crumpled and frilled at the edges. The popular market variety in the South; seed small, dark reddish-brown. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 20c, lb. 60c.

MUSHROOM SPAWN

Mushrooms can be grown in cellars, sheds, hotbeds and sometimes in the open air, the chief essentials being uniform degrees of temperature and moisture.

SPORE CULTURE

One brick will spawn 8 to 10 square feet.
1 Brick.....\$.35 5 Bricks..... 1.50 10 Bricks.....2.75

ONION

CULTURE.—A strong, deep, rich and loamy soil is most suitable for this crop. Muck beds well drained to the depth of 2 feet give large yields. A black sandy loam is also excellent. The ground should be heavily dressed with well-rotted manure and plowed a moderate depth, taking a narrow furrow in order to more thoroughly mix the manure with the soil; if possible, the plowing should be done in the Fall. As early in the Spring as the ground is in working order harrow it thoroughly and make as fine and level as possible; sow thinly in drills $\frac{1}{4}$ inch deep and 14 inches apart.



WHITE SILVER SKIN

This is the most popular of all white Onions. The skin and flesh is a silvery white, mild flavor and flat shape. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 60c, lb. \$2.00.

PRIZETAKER

Flavor very mild and delicate. A very handsome Onion, of the largest size, and nearly globular in form. Skin is yellowish-brown; flesh white. If started very early in hotbeds it will produce a mammoth Onion the first season. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 60c, lb. \$2.00.

YELLOW GLOBE DANVERS

One of the most popular sorts for home or market gardens. Handsome, round, yellow Onion. A splendid keeper, and one that yields well. Can highly recommend this for growing either large or small Onions. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 59c, lb. \$1.75.

LARGE RED WETHERSFIELD

This is a well-known sort. A good yielder and an excellent keeper, and where red Onions are wanted there is none better. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 50c, lb. \$1.75.

ONION SETS

To raise Onion Sets from seed, use good ground, prepared as for large Onions, and sow the seed very thick in broad drills, using 40 to 60 pounds per acre. If the seed is sown thin, the bulbs will not only be too large for sets, but will not be of the right shape, and if sown thick on poor land they will be necky and bottle-shaped. Onion seed sown for Sets may be sown somewhat later than if a crop of large bulb is desired.

It requires 12 to 15 bushels of Onion Sets to plant an acre.

PRICES:

WHITE SILVERSKIN

Qt. 15c, 2 qts. 25c, pk. 75c, bu. 32 lbs., \$2.50.

YELLOW GLOBE DANVERS

Qt. 15c, 2 qts. 25c, pk. 75c, bu., 32 lbs. \$2.25.

JAPANESE OR YELLOW EBENEZER

Qt. 15c, 2 qts. 25c, pk. 75c, bu., 32 lbs. \$2.25.

Write for prices on larger quantities.



PARSLEY



Parsley succeeds best on rich, mellow soil. The seed is very slow in germinating, and should be sown as early as possible in the Spring, in drills 1 to 2 feet apart, covering not more than $\frac{3}{4}$ inch with fine soil, firmly pressed down. When plants are well up thin to 4 inches apart in the row. When the plants of the curled varieties are about 3 inches high cut off all the leaves. The plant will then start a new growth of leaves, which will be brighter and better curled. Every cutting will result in improvement.

TRIPLE CURLED

Handsome crimped and curled; rich, deep green color. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 25c, lb. 75c.

MOSS CURLED

The most popular, owing to its vigorous, compact growth and its beautiful dark green, tightly curled leaves that closely resembles moss. It is unusually decorative for table use. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 25c, lb. 60c.

PLAIN or SINGLE LEAF

Leaves are not curled, as in the above varieties. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 25c, lb. 60c.

HAMBURG or ROOTED

The fleshy root resembles a parsnip and is used for flavoring soups, etc. Pkt. 10c, oz 15c, $\frac{1}{4}$ lb. 25c, lb 75c.

OKRA OR GUMBO



Cultivated for its young seed pods, which are used in soups, stews, catsups, etc. After danger of frost is past, the ground being warm and in good condition, plant in rows about 2½ feet apart, covering with about an inch of fine soil, firmly pressed down. When about 3 inches high thin to about 1 foot apart in the row. One ounce will sow a row of 100 feet.

DWARF PROLIFIC

The pods are from 4 to 5 inches long and are very tender, slim and of a beautiful deep green color. Oz. 10c, $\frac{1}{4}$ lb. 20c, lb. 50c.

WHITE VELVET

The pods are more smooth or free of ridges; tender and very light green, almost white. Oz. 10c, $\frac{1}{4}$ lb. 20c, lb. 50c.

PERKINS MAMMOTH OR TALL GREEN

A medium early, productive sort. Pods bright, deep green, 7 to 8 inches long; slender, meaty, tapered and ribbed. A valuable market and canning variety. Oz. 10c, $\frac{1}{4}$ lb. 20c, lb. 50c.

WE WILL SEND BY PARCEL POST, PREPAID; as follows: SEEDS in Packages, Ounces, Quarter Pounds, Half Pounds, Pounds, Pints and Quarts; at prices quoted in this catalogue; if within second zone or 150 miles of Baltimore, Md.

Seeds in larger quantities, the purchaser pays transportation; if outside of our free delivery zone, which is to say; within a radius of 10 miles of Baltimore.

WATERMELON

CULTURE.—Watermelons require a rich sandy loam, which should be well worked. Put 10 to 12 seeds in a hill. When the plants have formed the first pair of rough leaves

they should be thinned so as to leave 2 or 3 of the strongest and best to each hill. Make hills about 10 feet apart. One ounce of seed to 30 hills.

TOM WATSON

This long, smooth melon is especially favored in the South. The rich green skin is faintly webbed with a veining of deeper green, covered with a fine netting, giving it a most attractive appearance. The flesh is of most superb quality and intensively red color. The rind is thin, but hard and rubbery, which makes it a splendid shipping sort. Vines hardy, vigorous and productive. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 25c, lb. 75c.

FLORIDA FAVORITE

A standard sort. Long and of uniform size. Color a beautiful green. Flesh very red, with a taste that lingers. It has long been a favorite with the truckers and market gardeners. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 25c, lb. 75c.

KLECKLEY SWEET

Well does it deserve its name. It has a sweetness peculiarly all its own. The skin is a rich dark green; the flesh bright scarlet; ripening close to the rind. The melons average about 20 inches long and ripen quite early. Our strain is from the original stock, and we can recommend it very highly. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 25c, lb. 75c.

THURMOND GRAY

A heavy producer of large long melons that have size, attractive appearance, fine quality and bright red, solid meat that ripens close to the tough thin rind and is free of strings. The green or greenish-gray color makes it hard to sunburn and it is wilt-resistant. It is a wonderful market melon, ranking with Irish Gray and Tom Watson as a shipper, but it has the fine sugary quality so necessary in a home garden melon. It is about as early as Irish Gray. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 25c, lb. 75.



Stone Mountain



IMPROVED GEORGIA or AUGUSTA RATTLESNAKE

Rattlesnake has always been regarded as a fine melon and by many is preferred to all others. Our improved strain is even better than it ever was on account of constant selection and watchful work on it throughout a period of years. The rind is thin and tough, the flesh deep scarlet, the flavor and fine quality are unsurpassed by any other melon. We recommend it for both the home garden and for shipping. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 25c, lb. 75c.

SWEET HEART

Fruits very large; round to slightly oblong, with blocky ends; light green with fine, dark veining; rind hard and tough; flesh bright red, crisp and sweet, seeds black. Pkt. 10c, oz. 15c. $\frac{1}{4}$ lb. 25c, lb. 75c.

IRISH GRAY

In sweetness it is like Kleckley's Sweet; in shipping quality, uniformity in shape, size and in productiveness it compares with Tom Watson. The thin rind is so tough it will not burst from rough treatment in transit; its keeping quality will appeal to shippers who have experienced losses on account of glutted markets. The color is a distinct mottled greenish gray; the flesh is red, sweet, crisp and free from stringiness. Although a grand shipper, it is equally fine for the home garden. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 25c, lb. 75c.

STONE MOUNTAIN

The largest of the round or nearly round melons, for on good melon ground they weigh 50 pounds or better. The outside color is dark green; the flesh is deep red, firm and solid, almost all heart with no white hearts or stringiness. In delicious sweetness it is the equal of Halbert Honey and Kleckley Sweet and almost equal to Jackson. It is especially recommended for the home garden and nearby markets, but if carefully packed, the rind is tough enough to stand considerable handling, and on arrival usually outsells all other melons. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 25c, lb. 75c.

PRESERVING CITRON or MELON

A large-fruited variety, pure white flesh and thin rind. This is expensive when bought, yet can be grown and preserved by any energetic housewife, who will then also know it to be absolutely pure and good. It is planted like Watermelon. Red-seeded. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 30c. lb. \$1.00.

P E A S

CULTURE.—For early Peas the soil should be light and warm, but for general crop a moderately heavy soil is better. Fresh manure and very rich or wet, mucky soil should be avoided, as they cause a rank growth of vine at the cost of the quality of the Peas; such soil is often the cause of early sorts maturing unevenly. Sow as early as possible a few of some early variety on warm, quick soil, prepared the fall before. The general crop can be delayed until later, but we have met with better success from sowing all the varieties comparatively early, depending for succession upon selecting sorts that follow each other in maturity. The

LARGE PODDED ALASKA

Vines $2\frac{1}{2}$ feet. The pods are well shaped and well filled, containing 6 to 8 Peas of a beautiful green color, both Peas and pods retaining their fresh green color longer after being picked than other kinds, this being a point of particular value when they are grown for shipping purposes. Pt. 25c, qt. 40c, pk. \$2.25, bu. \$7.25

ALASKA

Vines $2\frac{1}{2}$ feet. Seed small, smooth and bluish green in color. Unequalled evenness in growth of vine and early maturity of pods, which are filled with medium-sized, bright green Peas of good flavor. Pt. 25c, qt. 40c, pk. \$2.00, bu. \$6.50.

BOUNTIFUL

Of recent introduction. Early and very prolific; vines of even growth and bearing any number of well-filled pods, which are of a light green color, containing 6 to 8 Peas to the pod. Pt. 25c, qt. 40c, pk. \$2.25, bu. \$7.25.

PEDIGREE EXTRA EARLY

A very popular sort with the trucker. Early as Alaska; large pods, white seeded, very prolific. All mature at one time and can be gathered in one picking. Pt. 20c, qt. 35c, pk. \$2.25, bu. \$7.25.

PROLIFIC EARLY MARKET

It has proven to be the finest, largest and most prolific extra-early variety on the market. It is larger than the Alaska, a few days later and more prolific than any of the other sorts. Will always command a higher price in the

Peas will give quicker returns if covered only 1 inch deep, and where earliness is most important they may be treated in that way. Larger pods and more of them will be produced if the seed be planted in trenches 3 to 6 inches deep and covered with only 1 or 2 inches of soil. When the plants are 5 or 6 inches high fill the trench level with the surface; this will secure deep rooting, prevent mildew and prolong the bearing season. If the Peas be covered to the full depth at first, or if water be allowed to stand in trenches, they will not germinate or grow well.

EXTRA-EARLY VARIETIES



W. D. Co's. Early Bird

markets because of its handsome and showy pods. It is just the Pea for the trucker and also the home garden. Pt. 20c, qt. 35c, pk. \$2.25, bu. \$7.25.

EARLY BIRD

A very early, large podded variety. Semi-wrinkled. Vines grow about 22 inches. Pods from 4 to $4\frac{1}{2}$ inches long and pointed, with from 9 to 10 peas in the pod. Robust growth and a very heavy yielder. Can be sown with safety as soon as the ground can be worked. This is one of the best varieties for the market gardener and trucker. Pt. 25c, qt. 40c, pk. \$2.00, bu. \$7.50.

LARGE-PODDED SUGAR VARIETIES

THOMAS LAXTON

Closely resembling Gradus in habit, rapidity of growth, earliness of foliage; 26 to 30 inches high, and much hardier in every respect than the Gradus. Pods 4 to $4\frac{1}{2}$ inches long, round and well filled. Ready to pick 52 days from planting. Pt. 25c, qt. 40c, pk. \$2.25, bu. \$7.50.

AMERICAN WONDER

Vigorous, productive vines, with a luxuriant foliage, producing the leaves on one side of the stalk, and growing from 9 to 12 inches high. On account of its dwarf habit of growth it is very desirable for private garden use. Pods are light-colored, straight, round, about $2\frac{1}{2}$ inches long and blunt at the end. Fit for picking 55 days from planting. Seed is wrinkled green, medium in size and square at the ends. Pt. 25c, qt. 40c, pk. \$2.25, bu. \$7.50.

NOTT'S EXCELSIOR

Resembling Gems in habit, but more dwarf and uniform in growth. Height 12 to 17 inches, with rather light foliage.

Pods are light in color, round, about $2\frac{1}{2}$ inches long, blunt at the ends. Fit for picking 56 days from planting. Seed green, wrinkled, medium in size and square at the ends. Pt. 25c, qt. 40c, pk. \$2.25, bu. \$7.25.

GRADUS, or PROSPERITY

A large, wrinkled, early Pea, with a pod nearly as long as the Telephone; tender and of good quality and flavor. Very quick to germinate and mature with the other sorts. This Pea will not stand adverse conditions, however, as well as some of the other sorts, and seed must be planted after all danger of frost has passed. Pt. 25c, qt. 40c, pk. \$2.25, bu. \$7.75.

PREMIUM GEMS

Strong and vigorous in growth. Height about 15 inches; dark foliage, bearing pods on both sides of the stalk, beginning near the ground. Pods light in color and blunt at the ends. Seed is green, wrinkled and medium in size. Pt. 25c, qt. 40c, pk. \$2.25, bu. \$7.50.

LAXTON'S PROGRESS

The largest podded and most attractive of the Laxtonian Family. Popular for shipping, also for home and market gardens. Pt. 25c, qt. 40c, Pk. \$2.25, bu. \$7.50.

DWARF TELEPHONE

Vines 18 to 26 inches high, with rather coarse foliage; medium light green, bearing pods broad, straight and about 4 inches long. Pale green in color and well filled with peas of excellent flavor. Ready for picking from 62 to 65 days from planting. Seed pale green, large, much wrinkled. Pt. 25c, qt. 40c, pk. \$2.25, bu. \$7.75.

SUTTON'S PIONEER

It is a first-early sort and very prolific. The large, handsome pods being packed with plump, tender, rich-flavored peas. Vines reach a height of 2 feet, are very strong and do not need support unless the soil is very rich. Pt. 25c, qt. 40c, pk. \$2.25, bu. \$7.50

WORLD'S RECORD

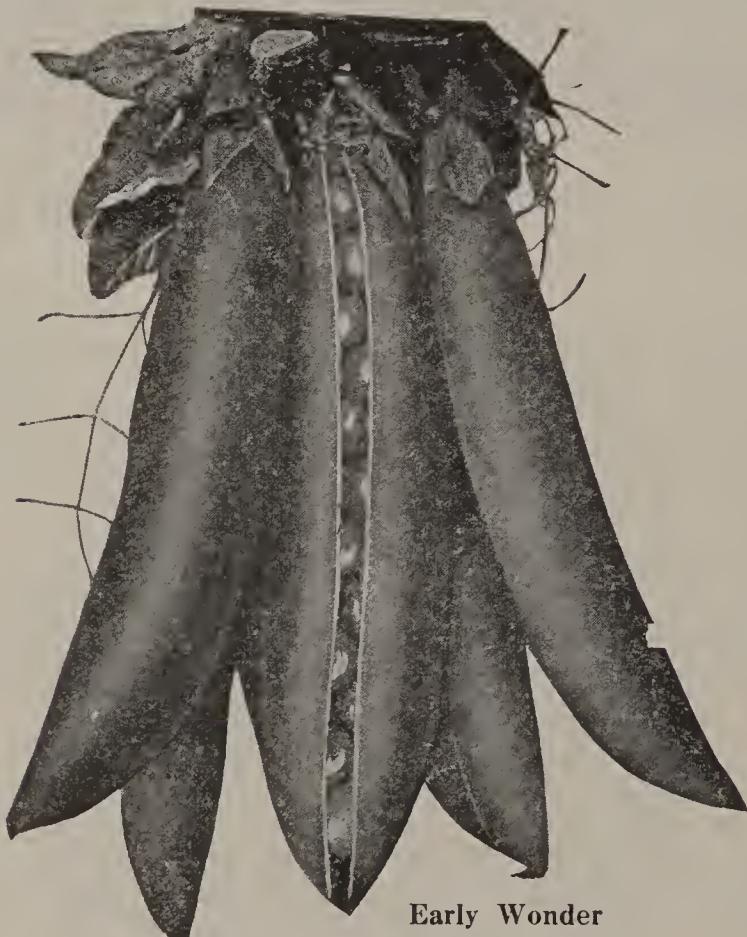
This is of the Gradus type, being an improvement, in that it is earlier and more prolific; maintaining the same fine flavor. Matures in 74 days. Pt. 25c, qt. 40c, pk. \$2.25, bu. \$7.75.

STRATAGEM

A vigorous, hardy and luxuriant vine, bearing large pods, containing Peas of excellent quality. A heavy cropper, but it has a tendency to sport. Vines 20 inches. Foliage dark green. Pods 3½ inches long, straight, broad-pointed, gray-green in color. Fit for table use 56 days from planting. Seed very large, green wrinkled. Pt. 25c, qt. 40c, pk. \$2.25, bu. \$7.50.

EVERBEARING

Vigorous, and bracing in habit of growth. Height 2½ to 3 feet. Pods 2¾ to 3 inches long, broad, light-colored and blunt. Fit to pick 70 days from planting. Seed green, wrinkled and large in size. Pt. 25c, qt. 40c, pk. \$2.25, bu. \$7.25.

**CHAMPION OF ENGLAND**

Strong and vigorous in growth, 42 to 50 inches in height. Foliage medium green. Pods 2½ to 3 inches long, blunt, medium dark green in color. Fit to pick 68 to 73 days from planting. Seed large, green and very much wrinkled. Pt. 20c, qt. 30c, pk. \$2.25, bu. \$7.50.

PRIDE OF THE MARKET

Of fine growth and general appearance, both vine and pod, and closely resembles the Stratagem, except that the vine is not quite so long and the pods are deeper green in color. The vine is 20 inches high. Foliage dark green color. Pods are 3½ inches long, broad and dark in color. Fit for table use 61 days from planting. Seed blue, slightly dented and large. Pt. 25c, qt. 40c, pk. \$2.25, bu. \$7.50.

NITRAGIN		INOCULATOR PRICES When Ordering, Always Specify Name of Seed	
The Original Legume Inoculator			
ALFALFA, all CLOVERS		LESPEDEZA	
Size	Retail	Size	Retail
½ bu. ea.	\$.30	1 bu. ea.	\$.30
1 bu. ea.	.50	2 bu. ea.	.56
2½ bu. ea.	1.00	5 bu. ea.	1.00
VETCH, AUSTRIAN PEAS, CANADIAN PEAS, BEANS		PEANUTS, SOY BEANS, COW PEAS, LIMA BEANS	
½ bu. ea.	\$.25	1 bu. ea.	\$.30
1 bu. ea.	.40	2 bu. ea.	.50
1½ bu. ea.	.60	5 bu. ea.	1.00
5 bu. ea.	1.70	10 bu. ea.	1.60
*12½ bu. ea.	4.00	*25 bu. ea.	3.00
**100lb. & 12½ bu. size, packed only for Vetch & Peas		*25 bu. size packed only for SoyBeaus, CowPeas, Peau's	
NITRAGIN GARDEN SIZE for Garden Peas, Beans, Sweet Peas, Lima Beans and Lupines. Enough for 4 lbs. seed.		Retail Price.....10c each.	

DARK PODDED TELEPHONE

Vines and leaves large and coarse. Foliage light green in color. Height 60 to 63 inches. Pods 4½ inches long, broad, pointed and medium in color. Fit to pick 85 to 88 days from planting. Seed large, green and wrinkled. Pt. 25c, qt. 40c, pk. \$2.25, bu. \$7.50.

LAXTONIAN

Vine 1½ feet in height, with dark green foliage. Large, crusted, dark green pods, pointed at the ends. Seed green, wrinkled, large-sized. Pt. 25c, qt. 40c, pk. \$2.25, bu. \$7.75.

TELEGRAPH

Closely resembling Telephone in all respects, except that the pods are a deeper shade of green and the Peas are of only fair quality, although the pods are of very fine appearance. Pods 4 to 4½ inches long, medium dark green, pointed. Fit to pick 65 days from planting. Seed large, blue and round, dented. Pt. 25c, qt. 40c, pk. \$2.25, bu. \$7.50.

EARLY WONDER

A medium early variety of exceptionally good quality. Pods are a bluish-green color, about 4 inches to 5 inches long, filled with 4 to 5 large, dark green peas. Height of vines about 40 inches with dark green foliage of vigorous growth. As this is a hardy sort it can be planted earlier than the other varieties. Pt. 25c, qt. 40c, pk. \$2.25, bu. \$7.50.

ALDERMAN

This variety produces enormous pods 5 inches long and upwards, containing from 5 to 6 large dark green peas and are mostly produced in pairs. This makes them much less tedious to pick. The plant is of strong growing habit, requiring stakes, but produces enormous crops. The pods are of unusually attractive appearance when placed on market, and are always saleable. We especially recommend this variety, as it is one of most excellent quality and comes in late, after other varieties are too old. Matures in 89 days. Pt. 25c, qt. 40c, pk. \$2.25, bu. \$7.50

EDIBLE POD PEAS**MELTING SUGAR**

One of the best varieties. Can be used in a green state like string beans. Pt. 30c, qt. 50c, pk. \$3.00.

PARSNIP



Improved Hollow
Crown or Guernsey

CULTURE—Parsnips are usually grown on deep rich, sandy soil, but will make good roots on any soil which is deep, mellow and moderately rich. Fresh manure is apt to make the roots coarse and ill-shaped. As the seed is sometimes slow and uneven in growth, it should be sown as early as possible in drills 2½ feet apart; cover ½ inch deep and press the soil firmly over the seed. Give frequent cultivation and thin the plants to 6 inches apart in the row.

IMPROVED HOLLOW CROWN or GUERNSEY

An excellent variety for the table. Roots long, with smooth white skin, uniform in shape, tender and of the best quality. The variety is easily distinguished by the leaves growing from the depression on top or crown of the root. Pkt. 10c, oz. 15c, ¼ lb. 25c, lb. 75c, 5 lbs. \$3.25.

PUMPKIN

CULTURE.—Pumpkins are not so particular in regard to soil as Melons or Cucumbers, but are cultivated much the same. Plant seed about 10 feet apart, in hills, dropping about 10 seed to a hill. When plants are well started, thin to 3 plants to each hill. To plant in corn place seed about every third or fourth hill after the last working.

WINTER LUXURY

This is one of the best pie Pumpkins in existence, and its Winter-keeping qualities are almost unequaled. Is slightly oval in shape and of medium size. Evenly and finely netted, and is a yellowish russet color. The flesh is very tender, sweet and rich golden in color. A great producer. Pkt. 10c, oz. 15c, ¼ lb. 25c, lb. 75c.

SWEET POTATO PUMPKIN

This is without doubt the best for table use, resembling somewhat the Cushaw, but much prettier in color. A handsome green and white striped. Flesh yellow, solid, fine-grained and a delicious flavor. Pkt. 10c, oz. 15c, ¼ lb. 35c, lb. \$1.00.

KING OF THE MAMMOTH

The giant among pumpkins; specimens have been grown to weigh 60 pounds and reaching two feet or more in diameter; fruit round and flattened, slightly ribbed; skin salmon-orange, flesh bright yellow and very thick. Pkt. 10c, oz. 15c, ¼ lb. 25c, lb. 75c.

CUSHAW or CROOKNECK

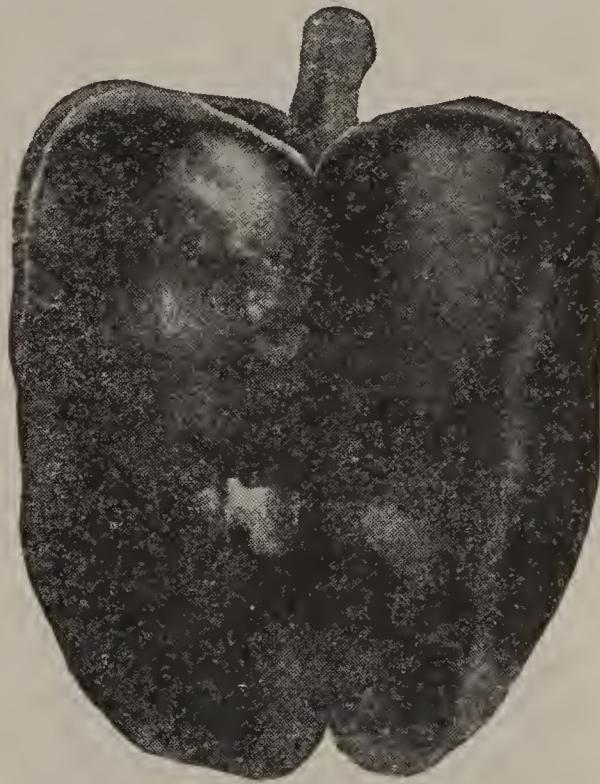
An old standard variety, which is very long yellow crook-neck, fine-grained, yellow flesh, very solid. Pkt. 10c, oz. 15c, ¼ lb. 25c, lb. 75c.

CONNECTICUT FIELD

Usually planted for feeding stock. So well known that it needs no description. Oz. 10c, ¼ lb. 20c, lb. 60c.

PEPPER

CULTURE.—Peppers are most largely used for seasoning meat and vegetable dishes, also for making chow-chow and Chili sauce. The culture is the same as for Eggplant and the plants need quite as much heat to perfect them. Sow seed early in hotbed, or about middle of Spring in open seed bed, the soil being light and warm. When 3 inches high transplant in rows about 2½ feet apart and 2 feet apart in the row. Cultivate and keep free from weeds. Guano, hen dung or any other bird manure hoed into the surface soil when the plants are about 6 inches high will undoubtedly increase the product.



LARGE BELL OR BULL NOSE

The fruits are large, with thick, mild flesh, of excellent quality for use in salads and mangoes or stuffed peppers. Pkt. 10c, oz. 25c, ¼ lb. 90c, lb. \$3.00.

NEW CHINESE GIANT

The fruits of this variety are of monstrous size. The shape is more blocky than Ruby King, being almost square, Color brilliant glossy scarlet. Usually 3 or 4 fruits are set first near the base, and while these are ripening a second setting is growing higher up. Flesh is thick and meaty and entirely free from any fiery flavor. Pkt. 10c, oz. 40c, ¼ lb. \$1.25.

CALIFORNIA WONDER

Resembles Chinese Giant in the large size and "blocky" form of its fruit, but having an extremely thick, mild, sweet flesh not possessed by that variety. Fruit indistinctly 3-lobed, upright, crimson, measuring 4½ inches in length by 4 inches in diameter. Rather late in maturing Pkt. 10c, oz. 40c, ¼ lb. \$1.25.

LONG RED CAYENNE

A well-known medium-early variety, having a slender, twisted and pointed pod about 4 inches long. Pkt. 10c, oz. 25c, ¼ lb. 75c.

RUBY KING

Very productive, bearing fruits 4½ to 5 inches long, mild flesh, making it particularly fine for mangoes. Pkt. 10c, oz. 30c, ¼ lb. 75c, lb. \$2.75.

WORLD BEATER

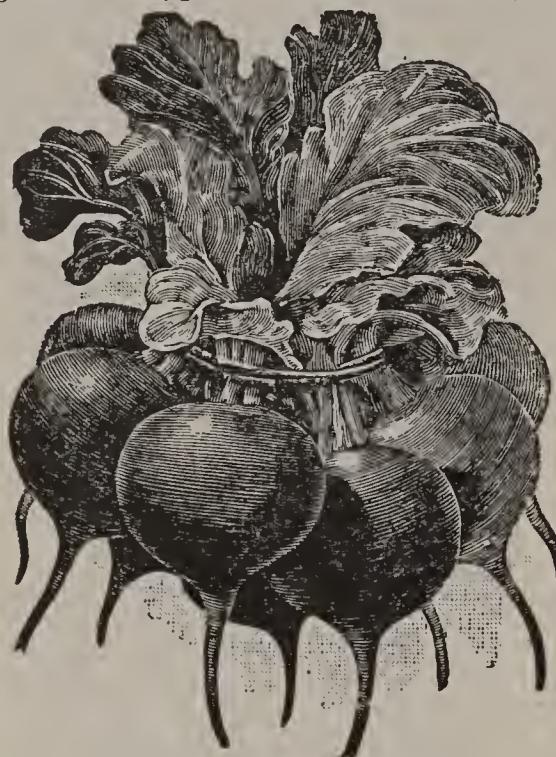
A valuable large variety for market gardens and shippers. Plants vigorous, upright and very productive. Fruits 4-lobed, smooth; color glossy green changing to bright red; flesh thick, mild, and very sweet. Pkt. 10c, oz. 30c, ¼ lb. 75c.

R A D I S H

CULTURE.—For open-ground culture sow on rich sandy soil as soon in the Spring as it is fit to work, in drills 12 to 18 inches apart, and thin out the plants to prevent crowding. A good dressing of nitrate of soda will greatly stimulate growth and insure tender, brittle roots. Successional sowing from 1 week to 10 days apart will keep up a supply. After the hot weather of Summer begins, it is better to sow the Summer and Winter varieties, as they do not become tough and stringy nor pithy so quickly as the earlier sorts. One ounce of seed to 100 feet of drill.

W.-D. CO.'S EXTRA EARLY SCARLET GLOBE

SPECIAL STRAIN (Grown from Transplanted Stock). A very desirable sort for hotbed forcing and for planting in the open ground. Very early, flavor mild, crisp and tender. Will stand heat without becoming pithy. Bright scarlet and of handsome shape. Our special strain is American grown and is selected with the greatest care as to the size of tops in order to have them just the right length for bunching. Pkt. 10c, $\frac{1}{4}$ lb. 20c, lb. 60c, 10 lbs. \$5.00.



Extra Early Scarlet Globe

SCARLET TURNIP, WHITE TIPPED

A good forcing variety; small size and very attractive being a handsome bright scarlet with white tip. Very early and of good quality. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 25c, lb. 75c.

ICICLE

A very attractive, pure white Radish; the earliest of the long white Summer sorts and of most excellent quality. The roots are somewhat shorter, with smaller tops than the long White Vienna, and matures a little earlier. One of the most desirable varieties for outdoor Summer planting. It is also adapted for forcing. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 25c, lb. 75c.

FRENCH BREAKFAST

Very rapid grower; mild and tender; beautiful scarlet color, white-tipped; oblong shape. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 25c, lb. 75c.

EARLY LONG SCARLET

This is a standard, most excellent sort either for the home garden or the market. Tops short and comparatively small. Roots smooth, slender, uniform in shape and a very attractive bright red in color. They continue crisp until fully matured, when they are about 6 inches long. Pkt. 10c, $\frac{1}{4}$ lb. 20c, lb. 60c.

MODEL WHITE BOX

Of quick growth; roots round, pure white; tails very thin, leaves short; flavor excellent. Fine for forcing and open ground. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 25c, lb. 75c.

WHITE STUTTGART

A Summer variety. Grows to an immense size; white flesh, very crisp and tender; of good flavor and a good keeper. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 25c, lb. 75c.

GOLDEN GLOBE

This variety is of quick growth, affording crisp and tender Radishes even in the hottest climate, and is extensively grown in the South. Root uniformly globe-shaped, with skin golden yellow in color; about 2 inches long by $2\frac{1}{4}$ inches in diameter when matured. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 25c, lb. 75c.

WHITE STRASBURG

Even when comparatively small this variety is in good condition for use, and continues crisp until matured, when the roots are 4 to 6 inches long by $1\frac{1}{2}$ to 2 inches in diameter. This is considered one of the best large white Summer sorts. The roots remain in condition for use much longer than the early varieties. Pkt. 10c, $\frac{1}{4}$ lb. 20c, lb. 60c, 10 lbs. \$5.00.



White Strasburg

WINTER VARIETIES

WHITE CHINESE or CELESTIAL

Roots long, cylindrical, with beautiful white skin and flesh; the whitest and usually the least pungent of the Winter varieties. Flesh compact and crisp. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 25c, lb. 75c.

LONG WHITE SPANISH

Long and tapering, and when full grown measuring 6 to 9 inches long. Skin white; flesh white. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 25c, lb. 75c.

ROUND WHITE SPANISH

Root round, turnip-shaped, pure white. A good Winter-keeping variety. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 25c, lb. 75c.

LONG BLACK SPANISH

One of the latest and hardest long Radishes, especially adapted for Winter variety. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 25c, lb. 75c.

ROUND BLACK SPANISH

Round, sometimes slightly top-shaped. Skin black; flesh white. Keeps well through the Winter. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 25c, lb. 75c.

RHUBARB

Rhubarb plants grown from seed will not all come true, but growing them this way costs less, and the undesirable plants can be discarded. They are quickly and easily grown. Sow seed in rows an inch deep and thin the plants to 6 inches apart. In the fall transplant to a permanent location, setting the plants 3 or 4 feet apart. The stalks should not be taken for use the first year.

In planting from roots, set them so that the crowns are 2 inches under the surface of the soil. They should be set 3 to 6 feet apart and given a liberal dressing of manure each spring. When blossom stalks appear, they should be cut well back to the ground. If possible choose a place where the soil will be continuously moist.

VICTORIA

A hardy and excellent sort for both the home garden and the market gardener. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 50c, lb. \$1.50.

RHUBARB ROOTS (Victoria). To save time and be sure of a crop, it is advisable to plant the roots. Each 10c, per dozen \$1.00. Per Hundred \$8.00.

SALSIFY or OYSTER PLANT

CULTURE.—Seed should be sown in early Spring in light, rich soil, in drills 14 inches apart, and thin to 6 inches in the row. The roots are perfectly hardy and many remain out all Winter.

MAMMOTH SANDWICH ISLAND

This variety is large and strong, growing with long, smooth, white, tapering roots, and is less liable to branch than the other sorts. Tops grassy. It is invaluable for market gardeners' use. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 50c, lb. \$1.50.

SORREL

CULTURE.—Sow in drills early in Spring, thin out to 6 to 8 inches apart in the row. Commence cutting about 2 months after planting. Sorrel is hardy, will continue to bear for three or four years. One ounce will sow 100 feet of drill.

LARGE LEAVED FRENCH

The best garden variety, having large pale green leaves of fine quality, resembling spinach, only not so broad. Perfectly hardy, can be cut five or six times. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 50c, lb. \$1.50.

SUNFLOWER

Mammoth Russian. Giant sized heads, 12 to 20 inches in diameter, are ordinarily borne by this variety, and 1,000 pounds of seed to the acre is not an unusual crop. The seed is of very good quality for poultry feeding. Soil and cultural requirements are like those of corn. 1 lb. 10c, 10 lbs. 80c.

SWEET HERBS

Do not fail to include some or all of these most delicious and fragrant garden herbs in your order. They are easily grown and comparatively few housewives know of the delicious and appetizing flavors to be had by the addition to many dishes of one or more of the old-fashioned herbs.

CULTURE.—Sow the seed as early as the ground can be worked, in rows 16 to 18 inches apart. See that the soil is worked fine and pressed firmly over the seed. Thin the plants as soon as they are large enough.

ANISE

An annual, cultivated for its seed which are used as a condiment. The leaves are also used for garnishing. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 50c.



Mammoth
Sandwich
Island

SWEET BASIL

A hardy, aromatic annual, used chiefly for flavoring soups, stews, sauces, etc., flavor is somewhat similar to cloves. Pkt. 10c, oz. 15c.

BORAGE

Hardy annual, leaves are used in salads, the crushed leaves immersed in water give an agreeable flavor. The blossoms are excellent for bees. Pkt. 10c, oz. 15c.

CARAWAY

Grown for its seeds, which are used in cakes, confectionery, etc. The leaves are sometimes used for flavoring in soups and liquors. Plants do not seed till next year. Pkt. 10c, oz. 15c.

CORIANDER

A hardy annual, grown for its seed which has an agreeable taste and is used in confectionery and liquors. Pkt. 10c, oz. 15c.

DILL

An annual of aromatic odor and warm, pungent taste. Used for flavoring pickles and stews, being particularly desirable for use in cucumber pickles. Pkt. 10c, oz. 10c, $\frac{1}{4}$ lb. 20c, lb. 50c.

SWEET FENNEL

Biennial, the seeds of this aromatic herb have a pleasant taste. The blanched base of the stem, when cooked has a sweet taste, a delicate odor and somewhat resembles celery. The young shoots are sometimes eaten raw and are used in salads, soups, etc. Pkt. 10c oz. 20c, $\frac{1}{4}$ lb. 60c.

LAVENDER

A hardy perennial, growing about 2 feet high. It is used for the distillation of lavender water or is dried and used to perfume linen. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 75c.

SWEET MARJORAM

An aromatic herb for seasoning. The tender tops and leaves are used green in Summer to flavor broths, dressings, etc.; they are also dried for Winter use. Pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 75c.

ROSEMARY

A hardy perennial for flavoring meats, soups and for medicinal purposes. Pkt. 10c, oz. 25c.

SAGE

(Broad Leaf.) This is the most extensively used of all the herbs. Hardy perennial, about 15 to 18 inches high. Used principally for flavoring and seasoning. Cut the leaves and tender shoots just before the plant comes into flower, and dry quickly in the shade. The plant will survive the Winter and may be divided. Pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 75c.

SUMMER SAVORY

A hardy aromatic annual, 12 to 15 inches high; the dried stems, leaves, and flowers of which are used for flavoring soups, dressings, stews, etc. Pkt. 10c, oz. 15c.

THYME

An aromatic perennial herb, used both medicinally and for seasoning. The young leaves and tips are for soups, stuffing and sauce, also a good tea for the relief of nervous headache can be made from the leaves. The leaves should be dried for Winter use. Pkt. 10c, oz. 40c, $\frac{1}{4}$ lb. \$1.50.

WORMWOOD

A perennial plant of fragrant, spicy odor, but with intensely bitter taste. The tops and leaves, gathered and dried when the plant is in flower, are used as a tonic, a vermicifuge, and as a dressing for fresh bruises; a fine poultry tonic. Pkt. 10c, oz. 25c.

SPINACH

CULTURE.—For early Summer use, sow as early in the Spring as the ground can be worked and for later use until April, after which time it runs to seed, except the New Zealand which is a Summer variety. For Winter use, sow from August to the middle of November. Spinach will not thrive on poor soil; therefore select a rich piece of soil, well

fertilized. It is best to sow in drills 12 to 18 inches apart, 1 to 1½ inches deep. When the plants are well started they should be thinned out to about 6 to 8 inches apart in the row. Being of a delicate nature, it is sometimes difficult to get a good stand, this is particularly true if weather conditions are not favorable. 1 ounce to 100 feet of row, 12 to 20 pounds to the acre.



A Field of Our Bloomsdale Long Standing Savoy Spinach

RESELECTED BLOOMSDALE SAVOY

A distinct improvement over the old Bloomsdale Savoy, in that it is extremely early, very hardy and withstands the Winter very well. The leaves are beautifully crumpled and blistered and free from pointed leaves; rich deep, glossy green; of splendid quality. A rapid grower; suitable for Fall or early Spring planting. The seed we offer has been carefully reselected and rogued for all faulty plants. Seed round. Oz. 10c, ¼ lb. 15c, lb. 25c, 10 lbs. \$1.60.

VIRGINIA BLIGHT RESISTANT SAVOY

A Savoy-leaved sort, bred at the Virginia Experiment Station for blight resistance. Upstanding, vigorous plants, seeding rather early; highly desirable for planting in infested soil. Oz. 10c, ¼ lb. 15c, lb. 30c, 10 lbs. \$1.75.

NEW LONG STANDING BLOOMSDALE SAVOY

In appearance quite similar to the Bloomsdale strain, may be of a little more compact growth, the leaves being more intensively green. Nearly as early as our Reselected Bloomsdale, and on account of nearly total absence of male plants it stands heat remarkably well. When other kinds have bolted to seed, it does not even show the least inclination to shoot and will stand up and remain in prime condition for at least two weeks longer. What this means to the market gardener may readily be seen. Oz. 10c, ¼ lb. 15c, lb. 30c, 10 lbs. \$1.75.

PRINCESS JULIANA

Compact habit, slow growing and very long standing. Leaves rounded, with short stems; thick, crumpled, very dark green; withstands warm weather, making it desirable for late planting. Oz. 10c, ¼ lb. 15c, lb. 30c, 10 lbs. \$1.75.

EXTRA DARK GREEN SAVOY

Darker green than ordinary Bloomsdale varieties; stands 10 days longer before bolting to seed, is very crumpled and stands the heat better than the Bloomsdale varieties. Oz. 10c, ¼ lb. 15c, lb. 30c, 10 lbs. \$1.60.

OLD DOMINION BLIGHT RESISTANT

Of recent introduction. A cross between the blight resistant Savoy and King of Denmark, by the Virginia Experiment Station. We highly recommend it for early Spring planting, but not for Fall or mid-winter as it is a slow grower. Does remarkably well on disease infested soil. Oz. 10c, ¼ lb. 15c, lb. 30c, 10 lbs. \$1.7.

SPECIAL SUMMER SAVOY

Resembles in general appearance a fine strain of Long Standing Bloomsdale, except that it is a shade darker green and a trifle more curled. But its greatest advantage is the better suitability as a Summer Spinach. Pkt. 10c, ¼ lb. 15c, lb. 30c, 10 lbs. \$1.60.

NEW ZEALAND

Unlike true spinach; it is absolutely distinct in form and habit of growth. It is not a spinach, though used as such. The foliage is thick, succulent, dark green and never sunburns. The plant becomes very large and spreading, with comparatively small leaves; later in maturing than spinach of usual form, but remaining in edible condition ten times as long. A sort to "Cut and Come Again," as it is most productive. Can be grown successfully on rich or poor soil. Plant three or four seeds in hills two feet apart each way. Pkt. 10c, oz. 15c, ¼ lb. 25c, lb. 75c.

SQUASH

CULTURE.—Squash plants are very tender and sensitive to cold, and so planting must be delayed until settled warm weather. General methods of culture are same as for Cucumbers and Melons, but Squash is less particular as to soil. Summer varieties should be planted 4 to 6 feet apart each way, and Winter sorts 8 to 10. Three plants are sufficient for a hill.



EARLY BUSH SCALLOP (Green Type)

This is a very early Summer variety; fruit flattened and scalloped, about 8 inches in diameter. Comparatively smooth on the surface. Color white with a distinct greenish cast. Very prolific. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 25c, lb. 75c.

BLUE HUBBARD

Has the general shape of the Hubbard squash family, but the outer shell is a bluish-green color and is comparatively smooth, though not entirely so. The flesh is a golden orange color, and cooks dry. Keeps well, as do all the Hubbards. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 25c, lb. 90c.

SUMMER CROOKNECK

An old standard sort, early and productive. Fruits, when fully grown, are about 1 foot long, with uniformly crooked neck and surface densely warted. Color yellow. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 30c, lb. \$1.00.



Boston Marrow Squash

BOSTON MARROW

A very productive Fall and Winter variety of medium to large size, oval shape, skin thin. Orange color; flesh fine-grained and of excellent flavor. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 20c, lb. 50c, 10 lbs. \$3.00.

HUBBARD

Vines vigorous and very productive. Fruit heavy, moderately warted, with very hard shell. Skin a dark bronze-green. Flesh a bright orange-yellow, fine-grained, thick, dry and richly flavored. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 25c, lb. \$1.00.

COCOZELLE or ITALIAN GREEN STRIPED

Produces a good crop of practically straight Squash on a bush similar to Crookneck, but the leaves are somewhat different in appearance. When young dark green, afterwards light yellow. Excellent for slicing and frying like eggplant. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 30c, lb. \$1.00.

TURNIP

CULTURE.—For Summer use sow early in Spring in light, rich soil, in drills $1\frac{1}{2}$ feet apart, according to the size of the variety, and cover $\frac{1}{2}$ inch deep, or sow broadcast, but in either case be sure to have the ground rich and freshly stirred. Thin early and keep free from weeds, so that the young plants will not be checked in growth. For Fall and Winter use sow the seed from middle of June to the first of August and in the manner given for Spring sowing. In the field Turnips are often sown broadcast at the rate of $1\frac{1}{2}$ pounds to the acre.



PURPLE TOP WHITE GLOBE

(See cut.) This excellent table variety is globular in shape, of good size and very attractive in appearance. The roots are large, purple, or dark red above ground, white below. The flesh is fine-grained and tender. This sort keeps well for so early a variety and is one of the best for market use. Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 40c.

EXTRA-EARLY PURPLE-TOP MILAN

Very early, fine-grained white flesh. Flat and of good size. Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 40c.

COW HORN or LONG WHITE

This variety is clear white, except a little shade of green at the top of the root, which is long and carrot-like in form, slightly crooked and grows nearly half out of the ground. The flesh is fine-grained and well flavored, and for table use is in best condition when the roots are about 2 inches in diameter. Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 40c.

YELLOW or AMBER GLOBE

Very large, yellow-fleshed, fine-grained variety. Excellent for table use or feeding stock. Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 40c.

SEVEN-TOP

Cultivated extensively for the tops, which are used for greens. In many sections it is a favorite feed for stock. Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 40c.

YELLOW ABERDEEN

Very hardy and productive, a good keeper; globe-shaped; color pale yellow, with purple top. Very firm in texture, and closely resembling the Ruta-Bagas in good keeping qualities. Good either for table or stock. Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 40c.

Rutabagas, or Swedes

LONG ISLAND or CANADIAN PURPLE TOP

This variety is superior in many ways to that of the old Purple Top type, as it is larger and more smooth, neckless and of a fine round shape, bright yellow color, fine grain and sweet. Very firm and will keep longer and ship better than any other sort. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.25.

AMERICAN IMPROVED PURPLE-TOP

Yellow-fleshed. An improvement over the ordinary Purple-Top in that it has a smaller and much shorter top. Splendid for family use or feeding stock. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 20c, lb. 50c.

TOMATOES

Our Tomato Seeds are grown for us by growers of the highest integrity and subjected to a very rigid inspection and separated from the tomato by the proven disease control method, fermentation of the whole pulp. The greatest care is used that they shall be true, pure and reliable. Our stocks are well chosen single plant selections, line bred and the fields frequently, carefully and thoroughly rogued.

CULTURE.—Tomatoes do best on light warm, not over-rich soil, and success depends largely upon securing a rapid, vigorous and unchecked growth during the early part of the season. Sow in hotbeds from 6 to 8 weeks before they can be set out of doors, which is when danger from frost is past.

When the plants have 4 leaves transplant into shallow boxes or cold frames, setting them 4 to 5 inches apart. Give plenty of air and endeavor to secure a vigorous but steady and healthy growth, so that at the time of setting in the open ground they will be strong and stocky. Even a slight check while the plants are small will materially diminish their productiveness. Set out of doors as soon as danger from frost is over, but before doing so harden off the plants by gradually exposing them to the night air and by the withdrawal of water until the wood becomes hard and the leaves thick and of a dark green color. Transplant carefully and cultivate well as long as the vines will permit.



W.-D. Co.'s "Improved Wisdom"

W. D. CO'S "IMPROVED WISDOM"

Want a good Tomato? Well; here it is and it is from the original strain of our "Wisdom" which we introduced some years ago and now through the special seed saving operations of our grower, where every precaution is taken against seed-borne disease and the careful selection of line-bred plants and careful rogueing we have improved this wonderful variety to such an extent that it is even more prolific than ever before, while still retaining its beautiful deep red color and shape that is so much desired; plants of the same healthy, vigorous growth as before and as nearly blight resistant as possible. Disease resistance, attractiveness of color, thickness of walls, and cropping qualities, have been attained to a high degree. We can highly recommend this "Improved Wisdom" to our most critical trade. We will only have a limited supply of Seed at the following prices:

Pkt. 10c, oz. 50c, $\frac{1}{4}$ lb. \$1.50, lb. \$5.00.

BREAK O' DAY

The fruit is of a beautiful red, meat very fleshy, few seeds, shaped very much similar to Marglobe, but earlier in some sections, having reached maturity three days later than the Earliana. Vines of a healthy vigorous growth. Pkt. 10c, oz. 40c, $\frac{1}{4}$ lb. \$1.00, lb. \$3.25.

WISEMAN-DOWNS CO.'S WILTPROOF

The fruit is of globular shape, but inclined to be deeper than any other variety. Perfectly smooth, no ridges and of a nice size. Very solid and meaty and comparatively few seeds. The color is a beautiful red and of a very attractive appearance. Immediately productive. Pkt. 10c, oz. 50c, $\frac{1}{4}$ lb. \$1.00, lb. \$3.50.

JOHN BAER

A second-early, scarlet-fruited variety. The fruit are round, medium sized, smooth and high crowned. Cell structure is irregular and quite solid. Fruit set in clusters of from 4 to 6. Vine makes good, but not heavy growth. Pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 75c, lb. \$2.50.

MARKET CHAMPION

Of recent introduction. Vines large and hardy; fruit bright red, deep and slightly flat in shape. Ripens well up to the stem end. Very productive, main crop variety. A very good sort for the trucker and the market gardener. Pkt. 10c, oz. 50c, $\frac{1}{4}$ lb. \$1.00, lb. \$3.25.

RUTGER

A splendid packing variety. Planted very extensively in the New Jersey trucking section with gratifying results. Vines of heavy growth and very productive, fruit a bright scarlet and inclined to be slightly flat. Pkt. 10c, oz. 40c, $\frac{1}{4}$ lb. \$1.00, lb. \$3.00.

IMPROVED NEW STONE

One of the largest and most solid late, bright red varieties. Vine large, vigorous and very productive. Fruits deep scarlet, nearly round or slightly flat. Smooth and uniform in size. Pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 60c, lb. \$1.75.

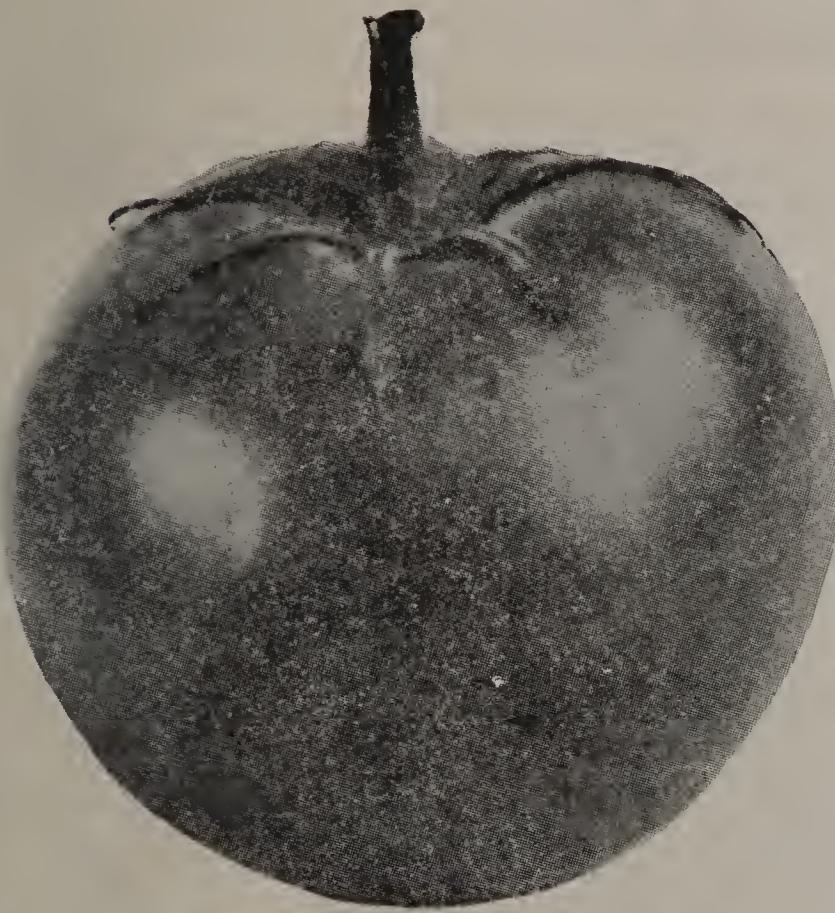
CHALK'S EARLY JEWEL

Very large, smooth, red and especially fine-flavored variety. Within 10 days as early as Earliana. Very prolific. Pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 60c, lb. \$2.00.

GREATER BALTIMORE

A mid-season or main crop variety. Brilliant red color, vines sturdy and vigorous, very solid and firm. A good variety for canning or shipping. Pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 60c, lb. \$1.75.

TOMATOES



W.-D. CO.'S NEW EARLY RED

If you would have a bumper crop of quality tomatoes, you should plant the New Early Red. We do not hesitate in saying "IT IS THE BEST," and this is the sentiment of our customers who have planted this variety.

It is Early, as our trials have shown it to be much earlier than the Marglobe and ripened very soon after the Earliana.

It is Red. It is a brilliantly colored tomato, with the color evenly distributed to the stem end and through the flesh. Its beautiful red color has attracted attention and quite an interest by dealers, growers, canners and others. It is of the round type, which the canners desire. The plants are vigorous in growth, wilt-resistant, and although the foliage is sufficient to give the tomato protection it is not dense enough to interfere with proper coloring. During recent years the canning houses have been encouraging the growing of an early round red tomato, and this one has certainly met the requirements, as to earliness, color, shape and productivity, and produces a very low percentage of culls. Pkt. 10c, oz. 50c, $\frac{1}{4}$ lb. \$1.25, lb. \$4.00.

BONNY BEST

About 10 days earlier than Chalk's Jewel, and nearly as early as Earliana. It is a strong vigorous grower, very prolific, heavy foliage, which acts as a protection from the hot sun. The fruit is round, red, with delicious flavor, very uniform in size and shape. Does not have the green surface like the Earliana. Pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 75c, lb. \$2.50.

PRITCHARD or SCARLET TOPPER

One of the late Dr. Pritchard's developments and introduced by the U. S. Department of Agriculture in 1931. A second early variety, a heavy yielder and of the type called self-topping or pruning. The fruit are of medium size, deep scarlet, globe shaped and solid. Its shipping qualities are unexcelled. Pkt. 10c, oz. 40c, $\frac{1}{4}$ lb. \$1.00, lb. \$3.25.

PENN STATE EARLIANA

The earliest of all Tomatoes. Especially valuable for this reason, being 10 days to 2 weeks earlier than any other sort. A bright red color; solid and very prolific. Pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 75c, lb. \$2.75.

MARGLOBE

Let us here and now, emphasize the fact that we have only one variety of Marglobe Tomato and we are not going to attempt to substitute some other variety, or seed saved from some canning house in order to lower the price; so when you order Marglobe from us, you can rest assured you are getting the true strain as originally introduced by the late Dr. Pritchard; selected with the greatest care, that they shall be true, pure and reliable. Fruit are well-sized, smooth, beautiful red color and of a very attractive appearance, globe shaped and almost coreless. Nationally known for its good canning and shipping quality. Pkt. 10c, oz. 50c, $\frac{1}{4}$ lb. \$1.00, lb. \$3.50.

SCARLET DAWN

Rapidly growing in popularity; earlier in season than the Marglobe or the Clark's Early which is the result of crossing of the two varieties. Fruit medium large with thick wall structure, globe shaped, free from flat sides, bright scarlet. Vine of medium growth, very prolific. Highly desirable for the market gardener or the home garden. Pkt. 10c, oz. 45c, $\frac{1}{4}$ lb. \$1.25, lb. \$4.00.

MONTEREY

A main crop, pink-fruited variety. The fruit are large, rather flat and inclined to roughness. Cell structure is broken and solid. From 3 to 5 large fruit in a cluster. Ponderosa is the largest, widely used pink tomato. Pkt. 10c, oz. 50c, $\frac{1}{4}$ lb. \$1.50, lb. \$5.00.

GOLDEN QUEEN

A main crop, yellow-fruited variety. The fruit are of medium size, smooth and of mild flavor. Pkt. 10c oz. 40c, $\frac{1}{4}$ lb. \$1.25.

Small-Fruited Varieties

For Preserves, Pickles and Decorative Purposes

RED CHERRY

Fruits are small and round, about the size of a cherry, color red. Pkt. 10c, oz 50c.

RED PEAR-SHAPED

The fruit are small and as the name would indicate are pear-shaped. Pkt. 10c, oz. 50c.

YELLOW PLUM

Small yellow fruit, plum-shaped, that is of oval form. Pkt. 10c, oz. 50c.

PEAR-SHAPED YELLOW

Fruit small, color yellow and pear-shaped. Pkt. 10c, oz. 5c.



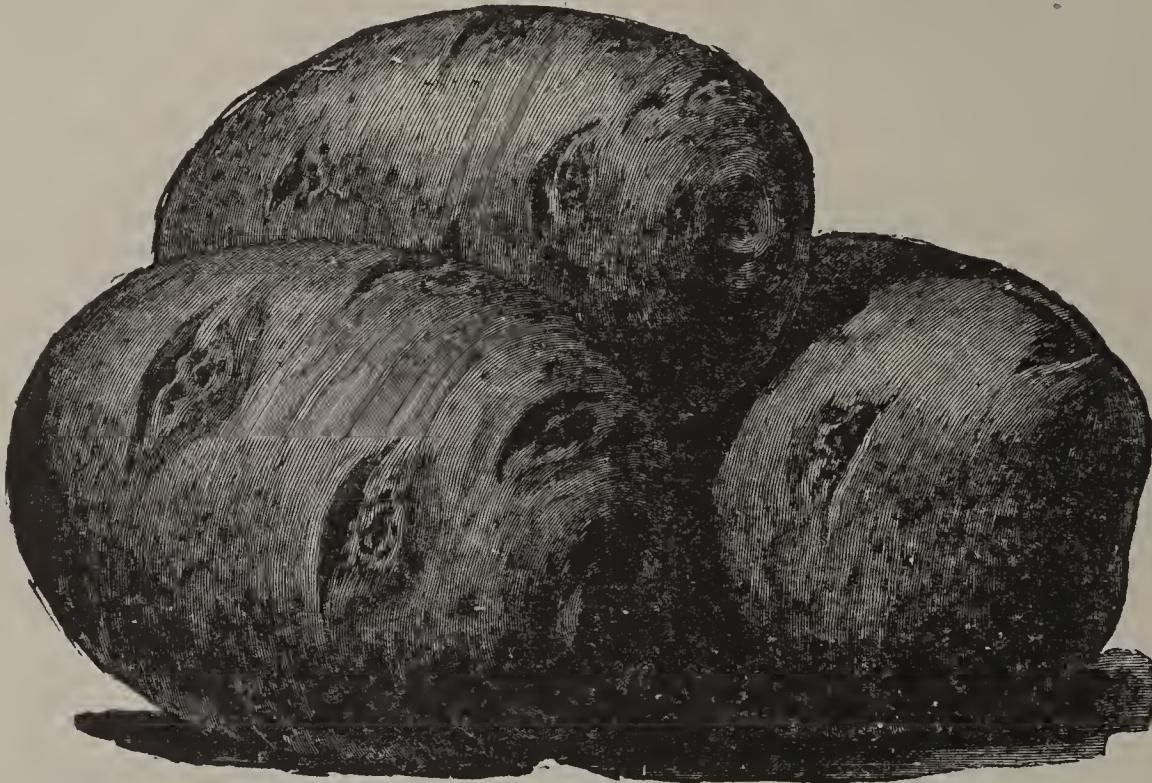
Marglobe

SEED POTATOES

Maine Grown

CULTURE.—Potatoes thrive better on light sandy soil, yet under favorable conditions a good crop may be obtained on heavier soil. If stable manure is to be used, see that it is well rotted and not allowed to come in contact with the tuber. Make rows 3 feet apart and plant about 8 or 10 inches apart in the rows. Cover seed about 4 inches if ground is

warm and dry; if cold and wet, cover 3 inches. Cultivate frequently to keep down the weeds. As the vines increase draw the earth around them, forming a slight ridge. When the bugs appear spray with Paris Green. Plant from 8 to 10 bushels to the acre.



IRISH COBBLERS

This is without a doubt the most popular variety grown. One of its chief characteristic features is that it makes few if any small potatoes, practically all being medium to large size and rarely ever a knotty one. A great favorite with the potato growers. Matures early; very productive; shape is round and chunky, with strong, deeply set, well developed eyes. Pure white flesh and cooks dry and mealy.

We handle both Certified and Selected Irish Cobblers. Maine grown.

NEW YORK EARLY ROSE

A leading variety for earliness, quality and productiveness.

RURAL NEW YORKER

A valuable variety, of large size, very smooth and a great cropper; in quality unexcelled. This variety is yearly becoming more popular as the best late long keeper, and we recommend it highly.

PROSPERITY

An extra large cropper; medium early; flesh white; cooks white and mealy.

MAINE or HOULTON EARLY ROSE

An old standard variety, so well known that it needs no description. Our stock of this variety is the very best.

GREEN MOUNTAIN

A splendid late-crop variety; an excellent keeper; very prolific.

DAKOTA RED

A very late variety and yields even better than the McCormick. Oblong in shape; color red; flesh white and will cook dry and mealy; keeping qualities unexcelled; will yield from 25 to 35 bushels to one planted. Not to be confounded with the McCormick, as it is a true and distinct variety and of much better quality. The stock we offer is locally grown.

RED BLISS

This variety has a pink skin, white flesh, very early, nearly round, good size, uniform cropper and a strong grower, cooks white and mealy.

FOR LATE PLANTING

For late planting, June and July, we carry in cold Storage, a stock of most all varieties so as to keep them in good condition for planting.

Sweet Potatoes

We can supply all the Leading Varieties in Season or from March 15th to April 15th.

SWEET POTATO PLANTS—ALL KINDS

READY ABOUT MAY 1st

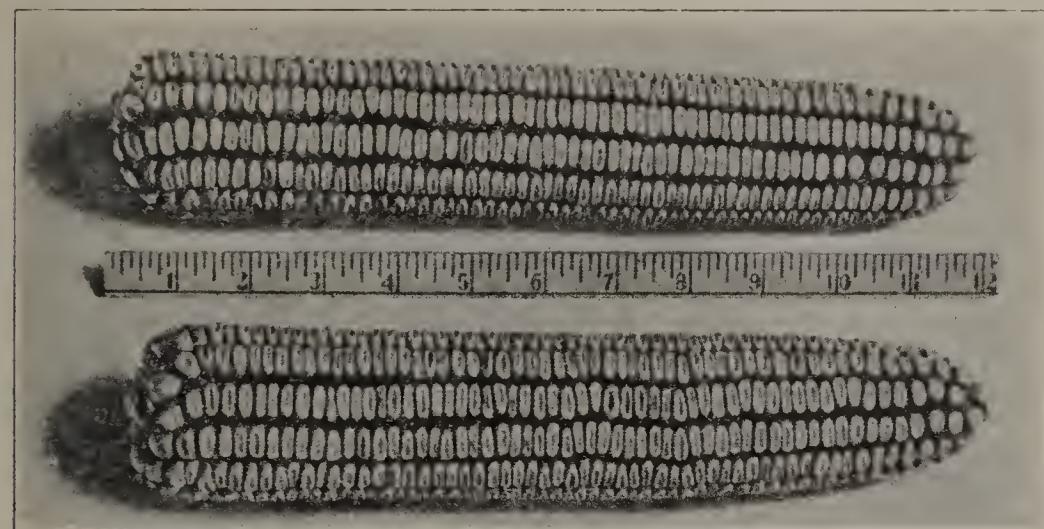
To prevent disease and to grow bumper crops of Potatoes, dip the tubers in "SEMESAN-BEL." See page 40. One pound will treat 60 to 80 bushels.

For blight on potatoes use Bordeaux Mixture. For potato bugs, use Arsenate of Lead, Arsenate of Zinc or Paris Green. For prices see pages 38 and 39.

SELECTED SEED CORN

Our stocks are grown for seed purposes only; from the best strains that the most scientific corn-breeding methods

have produced. Hand selected, field inspected, tipped and butted, germination 90 per cent or better.



EUREKA ENSILAGE

Eureka is more universally grown for ensilage than any other one variety. It is a double purpose corn, for, aside from being a first-class ensilage corn, as a field variety it ranks high in yield. It is tall and leafy, 13 to 15 feet high, with an enormous growth of fodder. It bears one to two ears to the stalk, the ears frequently over 12 inches. The grains are medium large, flinty, closely placed on a small cob and are very high in protein. The ears are resistant to corn ear worm, weevil, ear rot and are seldom unsound. It makes ensilage in about 100 days. Qt. 15c, pk. 75c, bu. (56 lbs.) \$2.75.

CERTIFIED BOONE COUNTY (White)

Medium late, requiring 110 to 120 to mature; fodder large, heavy and well bladed. Excellent for silo. Ears 9 to 12 inches long and well proportioned. Will average 18 to 20 tons per acre on good ground. Qt. 15c, pk. 75c. bu. (56 lbs.) \$2.75.

PAMUNKEY ENSILAGE

The tallest and best ensilage corn; large sturdy stocks, strong roots, no barren stalks, many with two large ears. Average twenty tons green silage per acre. Qt. 15c, pk. 75c, bu. (56 lbs.) \$2.75.

REID'S YELLOW DENT

This is the prize-winning strain, having won prizes at both the Maryland and Virginia corn shows. The only strain to take the Gold Medal for yielding over 100 bushels per acre. It has large beautiful ears $10\frac{1}{2}$ inches long and $7\frac{1}{2}$ inches around, rough dent, 18 to 22 straight rows of deep, wedge-shaped grain, tight on the cob, and filled out at butt and tip. Matures in 120 days. Qt. 15c, pk. 75c, bu. (56 lbs.) \$2.75.

LANCASTER COUNTY SURE CROP

A good cropper; excellent for silos. It is of the dent type, yellow on top, orange on sides, set close. Ears well-filled from butt to tip. Used almost exclusively by Pennsylvania farmers. Matures in 110 days. Qt. 15c, pk. 75c, bu. (56 lbs.) \$2.75.

POP CORN

SOUTH AMERICAN GIANT

Two or three ears on a stalk, length of ear 5 to 7 inches, color golden cream, creamy-white when popped. One of the best for popping. $\frac{1}{4}$ lb. 10c, lb. 15c, 10 lbs. \$1.00.

HYBRID EARLY YELLOW DENT

Highest Yielding Yellow Corn. Higher Yield. Deeper Roots. Storm Resistant. Drought Resistant. More Vigor. Less Disease. Experiment Station tests show actual yield increases of 15% to 25% over regular commercial varieties. Resistance to smut, rust, and wilt eliminates weak, diseased stalks and diseased, unsound ears. Experiment Station tests indicate that there is no Yellow Commercial Variety of corn that will out yield The Hybrid Early Yellow Dent, in Maryland, Pennsylvania, Delaware and New Jersey. The ears are large (10 inches long), solid, with 16 straight rows of deep grain tightly wedged on a small cob. The stalks are short and stocky, 8 ft. tall. Qt. 45c, pk. \$2.25 bu. (56 lbs.) \$8.00

IMPROVED GOLDEN DENT

Can always be relied on to make a satisfactory yield, makes one of the largest ears of any yellow corn, averaging 12 inches, very showy; named for its beautiful color, very prolific, stalks sturdy and strong. Matures in 120 days. Qt. 15c, pk. 75c, bu. (56 lbs.) \$2.75.



Improved Golden Dent

WHITE RICE

A handsome, very prolific variety of White Pop Corn. Ears 5 to 7 inches long, 2 to 3 ears to stalk, stalks 7 to 8 feet high, grains long and pointed, somewhat resembling rice. A good popping sort. $\frac{1}{4}$ lb. 10c, lb. 15c, 10 lbs. \$1.00.

FARM AND GRASS SEEDS



Field of Alfalfa

ALFALFA

The most valuable forage crop on the farm today. For hay, soil improvement and pasture it is unexcelled. Does not exhaust the soil; it enriches it. It supplies its own nitrogen and stores it in the land to make bigger crops that follow it. Sow the seed at the rate of 20 lbs. to the acre; in May, August and September. It is advisable to inoculate the seed with nitrogen. See Page 40.

KANSAS ALFALFA

U. S. Government Verified Origin

About 75 to 80% of all Alfalfa sown in the east is Kansas grown, as it stands our winters better than most all others. Do not try to save money by planting cheap alfalfa; it is expensive. Our Kansas Alfalfa will test 99.60% pure, 90% germination. 1 lb. 35c 10 lbs. \$3.25.

GRIMM ALFALFA

Very hardy, will stand the severest Winters of our Mountain section. 1 lb. 45c, 10 lbs. \$4.00.

"NORTHWEST" ALFALFA

U. S. Verified

This is the hardiest and most productive of all the Alfalfas, as the seed is grown under the most severe conditions in the Rocky Mountain States. 1 lb. 45c, 10 lbs. \$4.00.

OKLAHOMA—KANSAS ALFALFA

U. S. Verified

Grown in Oklahoma on the border line of Kansas; a very hardy strain. 1 lb. 35c, 10 lbs. \$3.00.

RED CLOVER (Trifolium Pratense)

This is by far the most important of all the varieties for practical purposes. Sow in Spring or Fall, and if no other grasses are used, at the rate of 15 pounds per acre. 1 lb. 30c, 10 lbs. \$2.25.

SAPLING CLOVER

Similar to Red Clover, the difference being that it grows larger and is later maturing. 1 lb. 35c, 10 lbs. \$3.25.

ALSIKE or SWEDISH (Trifolium Hybridum)

The most hardy of all Clovers; perennial. On rich, moist soil it yields an enormous quantity of hay or pasturage, but its greatest value is for sowing with other Clovers and Grasses, as it forms a thick bottom and greatly increases the yield of hay. Sow the seed in Spring or Fall, at the rate of 10 to 15 pounds per acre, when sown alone. 1 lb. 25c, 10 lbs. \$2.00.

CRIMSON CLOVER (Trifolium Incarnatum)

This is used principally for soiling or green manuring, for which purposes it is highly valuable. If desired for feed, cut it just before it flowers. When desired for green manure, it should be allowed to mature; its height is from 1 to 2 feet. Sow 20 pounds to the acre. Late summer or fall seeding is usually practiced. It is not hardy for more than one season and must be sown each year. 1 lb. 18c, 10 lbs. \$1.25.

WHITE BLOOMING SWEET CLOVER

While extensively used as a bee food, this is a valuable variety for soiling (green manure); for sowing in Spring on lands which are later to be sown in Alfalfa, this is excellent. It inoculates the ground and seems to render it more capable of insuring a good stand of Alfalfa than if it is not used. Can be cut as often as three times in a season if wanted for forage. Sow 15 pounds per acre in early Spring, alone, or 10 pounds per acre with other crops. 1 lb. 15c, 10 lbs. \$1.20.

WHITE DUTCH CLOVER

A small, creeping perennial variety, valuable for pasture and for lawns. It accommodates itself to a variety of soils, but prefers moist ground. 1 lb. 55c, 10 lbs. \$5.00.

LESPEDEZA or JAPAN CLOVERS

In feeding value it is about equal to Alfalfa. It grows anywhere, on acid soils; waste lands, worn out gravelly soils and galled hillsides, where nothing else will grow. Reseeds itself every year, but is easily killed out by a cultivated crop. The strong root growth penetrates about 8 inches deep, making it highly drought resistant. A harrowing before sowing is the only preparation necessary. When sown alone broadcast 20 pounds to the acre during latter part of March or early in April. Do not cover the seed.

JAPAN CLOVER or COMMON LESPEDEZA

The original Lespedeza. Sow 25 lbs. to the acre on your poor land to bring it into condition to produce profitable crops. 1 lb. 20c, 10 lbs. \$1.50.

KOREAN

This variety is better adapted to Maryland and Virginia than any of the other sorts. The abundant growth, deep penetrating roots covered with nodules make it an outstanding grazing and soil building legume. 1 lb. 10c, 10 lbs. 80c.

For bigger and better crops, inoculate the seeds mentioned on this page with "Nitragin."

Order Nitragin "A" for Clovers.

Order Nitragin "L" for Lespedeza.

GRASS SEED FOR LAWN AND FIELD

CREEPING BENT GRASS (*Agrostis Stolonifera*)

Particularly valuable for lawns that are to be used as croquet and tennis grounds. Makes a low, velvety growth. 1 lb. 75c, 10 lbs. \$7.00.

BLUE GRASS, KENTUCKY (*Poa Pratensis*)

It is the most nutritious, hardy and valuable of all Northern grasses. Sown with White Clover, it forms a splendid lawn. If sown by itself for meadow or pasture, use about 28 pounds per acre. 1 lb. 20c, 10 lbs. \$1.75.

BERMUDA GRASS (*Cynodon Dactylon*)

Extensively used on lawns and pastures in the Southern States. 1 lb. 40c, 10 lbs. \$3.50.

CRESTED DOG TAIL (*Cynodon Cristatus*)

A very hardy perennial used in pasture mixtures. 1 lb. 50c, 10 lbs. \$4.50.

FESCUE, CHEWINGS (*Festuca Rubra Fallax*)

Used on putting greens and very fine lawns. 1 lb. 80c, 10 lbs. \$7.50.

FESCUE, HARD (*Festuca Duriuscula*)

Used in pasture mixtures. 1 lb. 50c, 10 lbs. \$4.50.

MEADOW FESCUE or ENGLISH BLUE GRASS (*Festuca Pratensis*)

A perennial from 2 to 4 feet high, with flat, broad leaves. One of the standard European Grasses. It succeeds well on nearly all soils, but does best on upland, loamy or moderately stiff soils. An excellent pasture Grass to take the place of the wild grasses, as it yields a large amount of early and late feed. Sow about 40 pounds per acre. 1 lb. 20c, 10 lbs. \$1.75.

FESCUE, RED (*Festuca Rubra*)

Used on putting greens and lawns. Succeeds well in sandy soils. 1 lb. 80c, 10 lbs. \$7.50.

FESCUE, SHEEP'S (*Festuca Ovina*)

Valuable for pastures, does well on light soils. 1 lb. 50c, 10 lbs. \$4.50.

ORCHARD GRASS (*Dactylis Glomerata*)

Desirable for its quick growth and valuable aftermath. It is ready for grazing 2 weeks earlier than any other grasses, and when fed off is again ready for grazing in a week, and will continue green after all other grasses are withered by dry weather. It is palatable and nutritious, and stock eat it greedily when green. If sown alone, about 28 pounds per acre are required. 1 lb. 25c, 10 lbs. \$2.25.

RECLEANED RED TOP (*Agrostis Vulgaris*)

This is known as Herd's Grass. It is a good, permanent grass, standing our climate well, and makes good pasture when fed close; is valuable for low, wet meadows, producing a large return in hay. When sown alone, use about 28 pounds of the chaff seed per acre. Sow in Spring or Fall. 1 lb. 20c, 10 lbs. \$1.75.

ROUGH-STALKED MEADOW GRASS (*Poa Trivialis*)

Used on Shady Lawns and also for permanent pastures. 1 lb. 50c, 10 lbs. \$4.75.

RYE GRASS, DOMESTIC

For Pastures, extra heavy seed. 1 lb. 10c, 10 lbs. \$8.00.

PERENNIAL RYE GRASS (*Lolium Perenne*)

A very valuable variety for permanent pasture. Succeeds well on almost any soil, but is particularly adapted to moderately moist or irrigated lands. Sow 30 to 40 pounds per acre in Spring. 1 lb. 20c, 10 lbs. \$1.75.

RYE GRASS, ITALIAN (*Lolium Italicum*)

An annual grass grown mostly for hay and mixtures. 1 lb. 15c, 10 lbs. \$1.00.

TALL MEADOW OAT GRASS (*Avena Elatior*)

A hardy perennial, much used in the South and West. Roots penetrate deep. It yields a heavy crop on any good soil, and is valuable both for meadow and pasture. 1 lb. 20c, 10 lbs. \$1.75.

TIMOTHY (*Phleum Pratense*)

The most valuable of all the grasses for hay; thrives best on moist, loamy soils of medium tenacity. It should be cut just when the blossom falls. Sow early in the Spring or Fall, at the rate of 15 pounds per acre if alone, but less if with other grasses. 1 lb. 10c, 10 lbs. 60c.

WOOD MEADOW GRASS (*Poa Nemoralis*)

Grows from 1½ to 2 feet high; has a perennial creeping root, and an erect, slender, smooth stem. Well adapted to shaded places, such as orchards and parks, for either hay or pasture. Sow about 30 pounds per acre. 1 lb. 70c, 10 lbs. \$6.75.

W. D. CO'S PERMANENT PASTURE MIXTURE

Our pasture mixtures are composed of the very best and highest grade of seed obtainable. They are especially selected for purity and germination and are thoroughly mixed by our special process, thereby assuring a very even distribution of each individual variety on the ground. Forms a close heavy turf and will not be injured by close cropping and tramping of the animals. Plant 2½ bushels to the acre. 14 pounds to the bushel. In ordering please state if wanted for high or low land. 1 lb. 25c, 10 lbs. \$2.30, 25 lbs. \$5.50, 100 lbs. \$19.00.

DWARF ESSEX RAPE

This makes an indispensable green food for sheep and hogs. It can be pastured 8 weeks after sowing. The growth is enormous. If one has the available land, it is good to sow in succession, as the stock eat it close to the ground, and it will not stand pasturing any great length of time. This, of course, depends upon the number of head turned on an acre. Sow 6 pounds per acre broadcast from April 1st to October 1st. It produces enormous crops and is an ideal green manure. 1 lb. 10c, 5 lbs. 40c.

We carry in stock in their respective seasons the following list of field or farm seeds, all of which are of recleaned stock and of the highest germination.

Smooth Awned Bearded Barley, Beardless Barley; Japanese Buckwheat; Mixed, New Era, Whippor-will and Black Cow Peas; Canada Field Peas; Japanese, Hungarian, Golden or German Millets; Amber and Orange Sugar Cane or Sorghum; Sudan Grass; Fulghum (rust proof), Heavy Spring and Winter Oats; Winter, Rosen and Abruzzi Rye; White Kaffir Corn; China Beardless, Leaps Prolific Beardless, Foward Beardless, Lepland Beardless and Penn. 44 Bearded wheat; Wilson, Medium Yellow, Manchu, Mammoth Yellow, Tokio, and Laredo Soy Beans.

Let us know your requirements and we will gladly quote you prices.

Wiseman-Downs Co.'s RELIABLE FLOWER SEEDS

We present the following list as our selection of the best and most reliable of both domestic and foreign grown varieties and strains and feel sure they will please the most critical lover of flowers. We use every effort to procure the very best strains obtainable and spare no expense to accomplish same.

(A) ANNUALS are those flowers that bloom and ripen their seed the first year, then die. Among these will be found Asters, Balsam, Mignonette, Sweet Peas, Nasturtiums, Morning Glories, and many other very brilliant and

fragrant flowers. In fact, if you want flowers early in the season, and all the time until frost, a good selection of Annuals will not disappoint you.

(P) PERENNIALS are those flowers that endure our Winters with little or no protection, and live and bloom several years in succession. A large majority of the Perennials will bloom the first year if started early in the Spring. Hollyhocks, Larkspurs, Foxglove, Poppies, etc., are in this popular class.

ORDER BY NUMBER

ACHILLEA (Yarrow)

P-100—PTARMICA, "The Pearl."—Hardy White Perennial grows about two feet high. Pure white flowers. Pkt. 15c, $\frac{1}{8}$ oz. \$1.00.

ACONITUM (Monk's Hood)

P-102—NAPELLUS.—Hardy Perennial. Thriving best in semi-shady places. Long spikes of blue flowers. 3 feet. Pkt. 15c, $\frac{1}{4}$ oz. \$1.25.

ACROLINIUM

An "Everlasting;" can be dried and used in winter bouquets. Also fine for borders. Fifteen inches high.

A-105—DOUBLE ROSE.—Pkt. 10c, oz. 50c.

A-106—DOUBLE WHITE.—Pkt. 10c, oz. 50c.

A-107—DOUBLE MIXED.—Pkt. 10c, oz. 50c.

ADLUMNIA (Allegh ny Vine)

Hardy climber; flowers first year from seed. Hardy Perennial.

P. C.-108—CIRRHOZA.—Pkt. 15c, $\frac{1}{4}$ oz. \$1.25.

AGERATUM (Floss Flower)

Hardy Annual. Excellent for bedding or borders; blooms from early Summer till frost. Height about 2 feet. Beautiful feathery flowers.

A-113—BLUE BALL.—Pkt. 10c, $\frac{1}{2}$ oz. 50c.

A-114—DWARF WHITE.—Pkt. 10c, $\frac{1}{2}$ oz. 50c.

A-115—PURPLE PERFECTION.—Pkt. 10c, $\frac{1}{4}$ oz. 50c.

A-116—DWARF MIXED.—Pkt. 10c, $\frac{1}{4}$ oz. 75c.

AGROSTEMMA (Mullein Pink)

An attractive free-flowering hardy perennial. Fine for cutting.

A-126—ROSE OF HEAVEN.—Pkt. 10c, oz. 50c.

A-127—CRIMSON.—Pkt. 10c, oz. 40c.

A-128—ALBA.—Pkt. 10c, oz. 40c.

B-129—RED.—Pkt. 10c, oz. 40c.

B-130—MIXED.—Pkt. 10c, oz. 40c.



Alyssum

ALYSSUM

Very popular for baskets, edgings, rockwork or beds. Blooms all Summer; very fragrant.

A-140—MARITIMUM, Sweet White.—Pkt. 10c, $\frac{1}{4}$ oz. 15c, oz. 50c.

A-141—COMPACTUM (Little Gem), Dwarf White.—

Pkt. 10c, $\frac{1}{4}$ oz. 25c, oz. 75c.

A-142—COMPACTUM (Lilac Queen.)—Pkt. 10c, $\frac{1}{4}$ oz. 25c, oz. 75c.

A-143—MINIATURE, White.—Height 2 inches. Pkt. 10c, $\frac{1}{4}$ oz. 25c, oz. 75c.

P-144—SAXATILE COMPACTUM.—Golden Yellow. Pkt. 10c, $\frac{1}{4}$ oz. 40c, oz. \$1.00.

P-145—SAXATILE.—Cloth of Gold. Pkt. 10c, $\frac{1}{4}$ oz. 40c, oz. \$1.00.

AMARANTHUS

Very showy plants, some remarkable for their panicles of showy flowers and others for the brilliant range of colors in the leaves.

A-150—CAUDATUS (Love Lies Bleeding).—Long red panicles. Pkt. 10c, $\frac{1}{4}$ oz. 25c, oz. 75c.

A-152—CRUENTUS (Prince's Feather).—Dark red feathery flowers. Pkt. 10c, $\frac{1}{4}$ oz. 25c, oz. 75c.

A-154—MOLTEN FIRE (Summer Poinsettia).—The most beautiful of all. Blends beautifully with evergreens. Pkt. 10c, $\frac{1}{4}$ oz. 90c, oz. \$2.50.

A-155—TRICOLOR (Joseph's Coat).—Red, yellow and green leaves. Pkt. 10c, $\frac{1}{4}$ oz. 25c, oz. 75c.

AMPELOPSIS (Boston or Japanese Ivy)

P-156—VEITCHII.—A perennial climber, olive green leaves which turn to scarlet in the Fall. Pkt. 10c, $\frac{1}{4}$ oz. 25c.

ANCHUSA (Sea Bugloss)

A-158—CAPENSIS (Cape Forget-Me-Not).—Blue, annual, blooms all Summer. 18 inches. Pkt. 10c, $\frac{1}{4}$ oz. 25c, oz. 75c.

A-159—BLUE BIRD.—Of dwarf compact growth, light indigo blue. Pkt. 10c, $\frac{1}{4}$ oz. 35c, oz. \$1.00.

P-160—ITALICA.—Dropmore variety; lovely gentian blue; grows three to five feet high. Hardy Perennial. Pkt. 10c, $\frac{1}{4}$ oz. 25c.

ANEMONE (Wind Flower)

A very pleasing perennial; producing large flowers; fine for bouquets.

P-162—CORONARIA.—Mixed colors. Pkt. 10c, $\frac{1}{4}$ oz. 40c.

ANTIRRHINUM (Snap Dragon)

One of the most charming of old-fashioned flowers, as they will bloom profusely from July until frost. Suitable for beds or borders.

A-166—SNOWFLAKE.—White. Pkt. 10c, $\frac{1}{4}$ oz. \$1.00.

A-169—COPPER KING.—Coppery-bronze. Pkt. 10c, $\frac{1}{4}$ oz. \$1.00.

A-170—BRILLIANT.—Scarlet and Yellow. Pkt. 10c, $\frac{1}{4}$ oz. \$1.00.

A-171—CHEVIOT MAID.—Bright pink. Pkt. 10c, $\frac{1}{4}$ oz. \$1.00.

A-173—CRIMSON KING.—Pkt. 10c, $\frac{1}{4}$ oz. \$1.00.

A-174—MONARCH.—Crimson. Pkt. 10c, $\frac{1}{4}$ oz. \$1.00.

A-175—CANARY BIRD.—Yellow. Pkt. 10c, $\frac{1}{4}$ oz. \$1.00.

A-176—DEFIANCE.—Brilliant scarlet. Pkt. 10c, $\frac{1}{4}$ oz. \$1.00.

A-177—Special mixture of delicate shades. Pkt. 10c, $\frac{1}{4}$ oz. \$1.00.

A-180—ANTIRRHINUM.—Rock Hybrids mixed. Suitable for rock gardens. Pkt. 10c, $\frac{1}{4}$ oz. \$1.00.

AQUILEGIA or COLUMBINE

Hardy Perennials, very effective when grown in groups among shrubbery. Long spurred flowers on long wiry stems. Sow either in Spring or Fall.

P-185—LONG SPURRED HYBRIDS.—Pkt. 25c.

P-186—ROCKY MOUNTAIN COLUMBINE.—Single Blue. Pkt. 25c, $\frac{1}{4}$ oz. \$2.25.

P-187—DOUBLE MIXED VARIETIES.—Pkt. 25c.

P-188—SINGLE MIXED VARIETIES.—Pkt. 25c.

ARABIS (Rock Cress)

Early Spring flowering perennials; excellent for rockeries or edging.

P-190—ALPINA.—Pure white. Pkt. 10c, $\frac{1}{4}$ oz. 75c.

P-191—ALPINA ROSEA.—Rose. Pkt. 10c, $\frac{1}{4}$ oz. 75c.

ARCTOTIS (Africa Daisies)

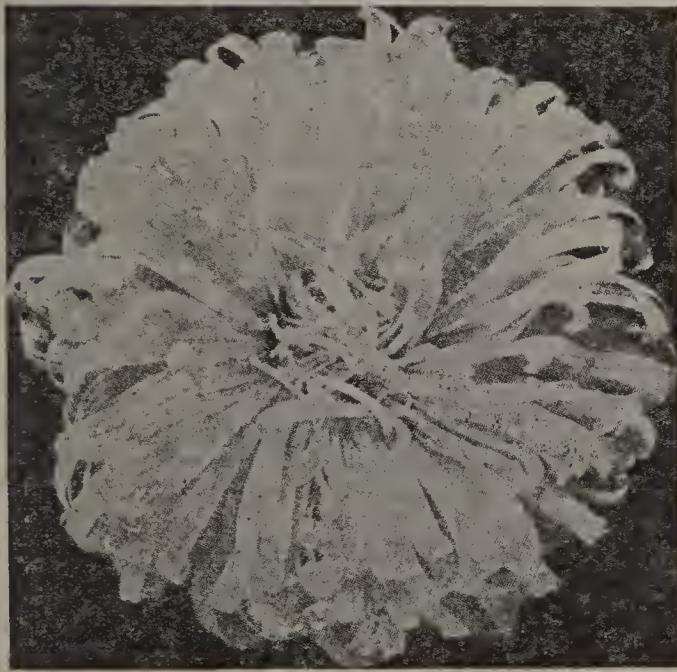
Produces beautiful white flowers with bluish centre; especially valuable as a cut flower, blooms lasting a week or ten days. Annual.

A-192—GRANDIS.—Pure white on upper surface. Pkt. 10c, oz. 75c.

ASPARAGUS

Especially adapted for planting in hanging baskets, window boxes, vases, etc.

193—SPRENGERI.—Pkt. 25c.



Aster

ASTERS

Unequalled for beauty, grace and usefulness, continuing in bloom from July to September. For early blooms sow the seed indoors in March or April. Annual.

AMERICAN EARLY BEAUTY

A-195—Azure blue. Pkt. 10c, $\frac{1}{4}$ oz. 75c.

A-196—Crimson. Pkt. 10c, $\frac{1}{4}$ oz. 75c.

A-197—Rose-Pink. Pkt. 10c, $\frac{1}{4}$ oz. 75c.

A-198—Rosy-Carmine. Pkt. 10c, $\frac{1}{4}$ oz. 75c.

A-199—Violet. Pkt. 10c, $\frac{1}{4}$ oz. 75c.

A-200—White. Pkt. 10c, $\frac{1}{4}$ oz. 75c.

A-201—All Colors, Mixed. Pkt. 10c, $\frac{1}{4}$ oz. 50c.

AMERICAN LATE BEAUTY

A-202—Azure Blue. Pkt. 10c, $\frac{1}{4}$ oz. 75c.

A-203—Crimson. Pkt. 10c, $\frac{1}{4}$ oz. 75c.

A-204—Rose. Pkt. 10c, $\frac{1}{4}$ oz. 75c.

A-205—Rose-Carmine. Pkt. 10c, $\frac{1}{4}$ oz. 75c.

A-206—White. Pkt. 10c, $\frac{1}{4}$ oz. 75c.

A-207—All Colors, Mixed. Pkt. 10c, $\frac{1}{4}$ oz. 50c.

AMERICAN BRANCHING

Tall Double Varieties

A-208—Antique Rose. Pkt. 10c, $\frac{1}{4}$ oz. 60c.

A-209—Crimson. Pkt. 10c, $\frac{1}{4}$ oz. 60c.

A-210—Dark Blue. Pkt. 10c, $\frac{1}{4}$ oz. 60c.

A-211—Lavender. Pkt. 10c, $\frac{1}{4}$ oz. 60c.

A-212—Light Blue. Pkt. 10c, $\frac{1}{4}$ oz. 60c.

A-213—Light Yellow. Pkt. 10c, $\frac{1}{4}$ oz. 60c.

A-214—Purple. Pkt. 10c, $\frac{1}{4}$ oz. 60c.

A-215—Violet. Pkt. 10c, $\frac{1}{4}$ oz. 60c.

A-216—White. Pkt. 10c, $\frac{1}{4}$ oz. 60c.

A-217—All Colors, Mixed. Pkt. 10c, $\frac{1}{4}$ oz. 50c.

AUREOLA (Rainbow Rock Cress)

A dwarf Spring flowering perennial, very attractive in rock work. Height 6 inches.

P-220—Dark Blue. Pkt. 15c, $\frac{1}{4}$ oz. 75c.

P-221—Purple. Pkt. 15c, $\frac{1}{4}$ oz. 75c.

P-222—Mixed. Pkt. 15c, $\frac{1}{4}$ oz. 75c.

BALSAM (Lady Slipper)

An old and favorite flower, producing masses of beautiful brilliant colored double flowers in the greatest profusion.

A-225—CAMELIA FLOWERED.—Double Mixed. Pkt. 10c oz. 75c.

BELLIS (English Daisy)

A low growing Spring flowering plant. Loves a shady place and will reward the gardener with a mass of blossoms for succeeding years, if left undisturbed. Hardy Perennial.

P-226—LONGFELLOW.—Red, Extra Double. Pkt. 10c, $\frac{1}{8}$ oz. 60c.

P-227—SNOWBALL.—Double White. Pkt. 10c, $\frac{1}{8}$ oz. 60c.

P-228—Double Mixed. Pkt. 10c, $\frac{1}{8}$ oz. 35c.

BRACHYCOME (Swan River Daisy)

Beautiful blue or white flowers, suitable for edgings, small beds or pot culture; 9 inches. Annual.

A-230—Blue. Pkt. 10c, $\frac{1}{4}$ oz. 25c.

A-231—Alba, White. Pkt. 10c, $\frac{1}{4}$ oz. 25c.

A-232—Rosea, Rose. Pkt. 10c, $\frac{1}{4}$ oz. 25c

A-233—Mixed Colors. Pkt. 10c, $\frac{1}{4}$ oz. 25c.

BOCCONIA (Plume Poppy)

P-234—CORDATA.—A beautiful hardy perennial, with creamy flowers, blooming profusely. Height 5 feet. Pkt. 10c, $\frac{1}{4}$ oz. 25c.

CACALIA (Tassel Flower)

Fine for borders, blooms freely from June to September; yellow and scarlet tassel-shaped flowers.

A-240—Coccinea, Red. Pkt. 10c, $\frac{1}{4}$ oz. 25c.

A-241—Aurea, yellow. Pkt. 10c, $\frac{1}{4}$ oz. 25c

A-242—Mixed Colors. Pkt. 10c, $\frac{1}{4}$ oz. 25c.

CALENDULA (Pot Marigold)

Showy free flowering hardy annuals, producing a fine effect in beds or mixed borders.

A-245—ORANGE KING.—Rich dark orange. Pkt. 10c, $\frac{1}{2}$ oz. 25c.

A-246—SPECIAL MARKET STRAIN.—Double Orange. Pkt. 10c, $\frac{1}{2}$ oz. 30c.

A-247—CAMPFIRE.—Brilliant Orange and Scarlet. Pkt. 10c, $\frac{1}{2}$ oz. 50c.

CALLIOPSIS

Showy and beautiful, free-blooming annuals. Excellent for cutting. Blooms continuously from early Summer until frost.

A-250—GOLDEN WAVE.—Large yellow flowers with dark brown centers. 1 foot. Pkt. 10c, $\frac{1}{2}$ oz. 50c.

A-251—Choice Mixed Colors. Pkt. 10c, $\frac{1}{2}$ oz. 25c.

CAMPANULA (Canterbury Bells)

Hardy biennial, flowering the second season from seed producing large bell-shaped flowers of exquisite color.

B-253—MEDIUM.—Prize Mixture of all double, Calycanthema and single varieties, extra fine. Pkt. 10c, $\frac{1}{2}$ oz. 40c.

P-254—CARPATICA.—Blue Dwarf. Pkt. 10c, $\frac{1}{2}$ oz. 40c.

P-255—CARATICA ALBA.—Pure White. Pkt. 10c, $\frac{1}{2}$ oz. 40c.

CANDYTUFT (Iberis)

Very popular and hardy annuals, universally known and considered indispensable for cutting.

A-256—Finest Dwarf Hybrids, Mixed. Pkt. 10c, $\frac{1}{2}$ oz. 30c.

A-257—Choice Mixture of only Umbellata Varieties in grand color proportion. Pkt. 10c, $\frac{1}{2}$ oz. 25c.

P-258—CANDYTUFT.—Spelndid Mixture of Perennials. Pkt. 10c, $\frac{1}{4}$ oz. 50c.

CANNA (Indian Shot)

Usually grown from bulbs, but can be raised from seed. Should be started early indoors.

A-259—GIANT NEW HYBRIDS.—Mixed. Pkt. 10c, $\frac{1}{2}$ oz. 50c.

CARDIOSPERMUM (Balloon Vine)

A rapid growing annual climber; white flowers, followed by seed pods. Also known as "Love in a Puff."

A-265—HALICACABUM.—Balloon Vine. Pkt. 10c, oz. 25c.

CARNATION

Most popular and valued highly for their delicious fragrance and richness of colors. Mixed.

A-266—MARGUERITE.—Double Mixed. Pkt. 10c, $\frac{1}{4}$ oz. 50c.

CELOSIA

Hardy Annual. Very ornamental, beautiful foliage.

A-270—CHILDSI (Chinese Wool Flower).—A profusion of large crimson balls. Pkt. 10c, $\frac{1}{2}$ oz. 75c.

A-271—PLUMOSII (Feathered Cockscomb).—Thompson's magnificent. Bronze colored foliage and graceful feathery plumes. Pkt. 10c, $\frac{1}{2}$ oz. 25c.

CENTAUREAS

Well known hardy annual. Should be included in all old-fashioned gardens.

A-272—CENTAUREA CYANUS (Double Corn Flower).—Also known as Bachelor's Button, Ragged Sailor, and Ragged Robin. Double Mixed Varieties. Pkt. 10c, oz. 50c.

P-273—WHITE LEAVED CENTAUREA. (Dusty Miller).—Grown for their beautiful silvery foliage. Pkt. 10c, $\frac{1}{4}$ oz. \$1.00.

CHRYSANTHEMUM

Showy and effective garden favorites. Hardy Annuals. Beautiful colored daisy-like flowers.

A-275—Single Mixed. Pkt. 10c, oz. 25c.

A-276—Double Mixed. Pkt. 10c, oz. 25c.

CINERARIA

Unsurpassed pot plants for the home or conservatory.

277—HYBRIDA GRANDIFLORA.—Extra large flowered choice mixture. Pkt. \$1.00.

278—MARITIMA CANDIDISSIMA.— Silvery-leaved. Pkt. 10c.

CLARKIA

Beautiful Hardy Annuals, bearing small carnation-like flowers in soft pastel tints.

A-279—Double Mixed. Pkt. 10c, oz. 50c.

COLEUS

Very popular and novel foliage plants for house or garden culture.

P-280—RAINBOW.—Large Leaf Mixture. Pkt. 25c.

CONVOLVULUS (Morning Glory)

An old and well known hardy climber. Height 15 feet.

AC-281—MAJOR.—Splendid Mixture. Pkt. 10c, oz. 25c.

AC-282—JAPANESE.—Fine Mixed with fine waxy flowers. Pkt. 10c, oz. 35c.

COSMOS

A Summer and Autumn flowering hardy annual. Used to advantage in clumps for screens or backgrounds.

A-285—Mammoth Flowered. Single Mixed. Early and late. Pkt. 10c, $\frac{1}{2}$ oz. 25c.

A-286—Double Mixed. Pkt. 10c, $\frac{1}{8}$ oz. 25c.

A-287—LADY LENNOX.—Pink. Pkt. 10c, $\frac{1}{2}$ oz. 40c.

A-288 CYPRESS VINE (*Ipomea Quamoclit*)

Popular vine, fernlike foliage and masses of beautiful small star-shaped flowers. Mixed colors. Pkt. 10c, oz. 50c.

DAHLIAS

One of the most popular Summer and Autumn flowering plants. Very easily grown from seed. We offer the best in single, cactus and show varieties.

P-290—CACTUS.—Choice Mixed. Pkt. 25c.

P-291—PEONY-FLOWERED.—Mixed. Pkt. 25c.

P-292—UNWIN'S DWARF HYBRIDS (Miniature).—Semi-Double Mixed. Pkt. 25c.

DELPHINIUM (Perennial Larkspur)

Long flower spikes, most beautiful shades of blue and purple. Seed should be started indoors in shallow boxes, early in Spring otherwise they will not bloom until the next year.

P-293—W.-D. CO.'s PRIZE MIXTURE.—A glorious strain, comprising outstanding colors and varieties. Pkt. 25c, $\frac{1}{8}$ oz. \$1.50.

DIANTHUS or PINKS

Dianthus or China Pinks

Most beautiful and satisfactory Summer flowering plants, unrivaled for brilliancy and rich variety of colors.

A-294—CHINENSIS.—Chinese Pink. Choice Double Mixed. Pkt. 10c, $\frac{1}{2}$ oz. 40c.

DIGITALIS (Foxglove)

Very showy, hardy plants. They are easily grown and produce freely; spikes 4 to 5 feet high, well furnished with Gloxinia-like flowers. Hardy Perennial.

P-295—THE SHIRLEY.—Large Flowered. Choice Mixed. Pkt. 10c, $\frac{1}{8}$ oz. 25c.

DOLICHOS (Hyacinth Bean)

A rapid growing annual climber, flowering freely in erect racemes, followed by ornamental seed-pods.

AC-296—Choice Mixed Colors. Pkt. 10c, oz. 25c.

ESCHSCHOLTZIA (California Poppy)

Very beautiful and brilliant annual. They will grow nicely and bloom profusely over a long season in any sunny position.

A-300—CALIFORNICA.—Pure Yellow. Pkt. 10c, $\frac{1}{2}$ oz. 50c.

A-301—ENCHANTRESS.—Double Rose. Pkt. 10c, $\frac{1}{2}$ oz. 75c.

A-302—Choice Mixed. Pkt. 10c, $\frac{1}{2}$ oz. 50c.

EUPHORBIA

Plants of a very colorful foliage, very pleasing as they are quite a contrast to other plants having all green foliage, or others that are grown only for their flowers.

A-305—VARIEGATA (Snow on the Mountain).—Pkt. 10c, $\frac{1}{2}$ oz. 25c.

A-306—HETEROPHYLLA (Summer Poinsettia).—Pkt. 10c, $\frac{1}{2}$ oz. 25c.

GAILLARDIA (Blanket Flower)

A-307—PICTA.—Single Mixed. Hardy Annuals. Large daisy-like flowers, of yellow and bronze. Pkt. 10c, $\frac{1}{2}$ oz. 25c.

A-308—PICTA LORENZIANA.—Double Mixed. Pkt.

10c, $\frac{1}{2}$ oz. 25c.

P-309—GRANDIFLORA.—Hardy Perennial. Large flowered. Choice Mixed. Pkt. 10c, $\frac{1}{2}$ oz. 40c.

GILLIA

Very graceful annual, growing about 2 feet high with fine feathery foliage. Rich lavender blue flowers.

A-310—Tall Mixed Colors. Pkt. 10c, oz. 50c.

GODETIA

Very showy, of compact growth. Exquisite colors and shades that glisten in the sunlight like satin. Hardy Annuals.

A-311—Semi-Dwarf Mixed. Pkt. 10c, oz. 75c.

A-312—Dwarf Mixed. Pkt. 10c, oz. 75c.

GOMPHRENA (Globe Amaranth)

Flowers resemble clover heads and can be dried and used in Winter bouquets. Sometimes called Bachelor's Button.
A-313—Mixed Colors. Pkt. 10c, oz. 50c.

GORUDS, ORNAMENTAL

Rapid growing, interesting annual climbers, with ornamental foliage and singular shaped fruit. We offer, ornamental mixed, Dish Cloth, Pipe or Calabash, Dipper, Nest Egg and Hercules Club.

AC-314—Mixed Varieties. Pkt. 10c, oz. 25c.

GYPSOPHILA (Baby's Breath)

Yields graceful sprays of pure white flowers. Fine cut flowers.

P-316—PANICULATA.—Hardy Perennial variety. Pure white sprays. Pkt. 10c $\frac{1}{4}$ oz. 25c.

A-317—ELEGANS (Alba Pura).—Annual variety. Pure white. Pkt. 10c, oz. 40c.

HELENIUM (Sneeze Wort)

Hardy Perennial, producing large daisy-like flowers of a golden yellow color.

P-318—HOOPESII.—Yellow with orange disc. Pkt. 10c, $\frac{1}{4}$ oz. 75c.

HELICHRYSUM (Straw Flower)

Hardy Annuals. Rich in glittering colors, generally grown to dry for use in Winter bouquets.

A-319—Choice Mixture of the following colors: Brown, Coppered, Crimson, Purple, Rose, Salmon and White. Pkt. 10c, $\frac{1}{4}$ oz. 25c.

HELIOTROPE

Always popular on account of its delightful fragrance. A half-hardy perennial flowering the whole season.

P-320—MAMMOTH FLOWERED.—Choice Mixture. Pkt. 10c, $\frac{1}{4}$ oz. 75c.

HIBISCUS (Marshmellow)

Showy ornamental plants for mixed beds or shrubbery borders, having large beautifully colored flowers. Hardy Perennial.

P-325—Giant Mixed. Pkt. 10c, oz. 50c.

HOLLYHOCK

Very popular hardy perennial; grown everywhere and valuable for a back ground.

P-330—Double Mixed. Pkt. 10c $\frac{1}{4}$ oz. 50c.

P-331—Single Mixed. Pkt. 10c, $\frac{1}{4}$ oz. 25c.

IPOMEA

Climbers of rapid growth, with beautiful and varied flowers; for covering walls, arbors, trellises, or stumps of trees they are invaluable.

AC-332—IMPERIALIS (Japanese Morning Glory).—Pkt. 10c. oz. 35c.

AC-333—GRANDIFLORA (Moon Flower). — Blooms open only at night. Pkt. 10c, $\frac{1}{2}$ oz. 25c.

KOCHIA (Summer Cypress)

Forms a cypress-like hedge of beautiful green and of perfect symmetry about 3 feet high. The entire plants turn to a deep red in the Autumn. Hardy Annual.

A-335—CHILDSII.—Pkt. 10c, oz. 40c.

LANTANA

Rapid-growing, tender perennial plants for pot culture in the Winter or garden decorations in the Summer.

P-336—HYBRIDA.—Mixed. Pkt. 10c, $\frac{1}{4}$ oz. 25c.

LARKSPUR

Hardy Annuals, with long floral spikes of double blossoms, and continuing in bloom, from early Summer until Fall.

A-337—Hyacinth Flowered, or Rocket, choice mixed. Pkt. 10c, oz. \$1.00.

A-338—Tall Double Mixed. Pkt. 10c, oz. 75c.

LATHYRUS (Everlasting Sweet Pea)

Showy, free-flowering hardy perennial climbers for covering old stumps, fences, etc.; continually in bloom; fine for cutting.

PC-339—Choice Mixed. Pkt. 10c, oz. 50c.

PC-340—White Pearl. Pkt. 10c, oz. 60c.

LINUM (Flax)

Very effective and showy bedding plants, of long duration; brilliant scarlet flowers.

A-345—GRANDIFLORUM RUBRUM.—Hardy Annual. Pkt. 10c, $\frac{1}{4}$ oz. 25c.

P-346—PERENNE.—Blue. Hardy Perennial. Pkt. 10c, $\frac{1}{4}$ oz. 25c.

LOBELIA

Very desirable for pot culture, edgings, hanging baskets, etc.; blooming profusely from June to November.

A-347—CRYSTAL PALACE.—Very large foliage and deep blue flowers. Hardy Annual. Pkt. 10c, $\frac{1}{4}$ oz. 60c.

LU NARIA (Biennis Honesty)

B-348—Grown for its silvery paper-like seed pods. Grows almost anywhere. 4 ft. biennial. Pkt. 10c, $\frac{1}{4}$ oz. 25c, $\frac{1}{2}$ oz. 40c.

LUPINUS (Lupine)

Free flowering, easily grown. Graceful long spikes set with large, pea-like blossoms. The plants prefer a semi-shaded spot.

A-350—HARTWEGI.—Hardy Annual, in choice mixture. Pkt. 10c, oz. 35c.

MARIGOLD

The French and African Marigolds are the most popular and easiest grown of all the annuals. The tall varieties give charm to the border, while the dwarfs are valuable for bedding and make ideal edging plants.

A-355—GUINEA GOLD (African).—Brilliant Gold. One of the most outstanding. Height about 2 feet. Very free bloomer. Pkt. 10c, $\frac{1}{4}$ oz. 25c.

A-356—LEMON QUILLED (African).—Clear lemon yellow. 2 $\frac{1}{2}$ feet. Pkt. 10c, $\frac{1}{4}$ oz. 40c.

A-357—PRIDE OF THE GARDEN (African).—Double Mixed. Pkt. 10c, $\frac{1}{2}$ oz. 35c.

A-358—TALL DOUBLE MIXED (French).—Pkt. 10c, $\frac{1}{4}$ oz. 25c.

A-359—DWARF DOUBLE MIXED (French).—Pkt. 10c, $\frac{1}{4}$ oz. 25c.

A-360—ROBERT BEIST (French).—Dark Maroon. Pkt. 10c, $\frac{1}{4}$ oz. 25c.

MARVEL OF PERU (Four O'Clocks)

Grows freely from seed. Blooms from the late afternoon on through the night, 2 feet.

A-361—Mixed Colors. Pkt. 10c, oz. 25c.

MIGNONETTE

A well-known favorite, very fragrant, and no garden is complete without it. Annual.

A-363—GOLIATH.—Large trusses of double red flowers. Pkt. 10c, $\frac{1}{4}$ oz. 30c.

A-364—MACHET.—Large spikes, red tinted. Pkt. 10c, $\frac{1}{4}$ oz. 20c.

MOMORDICA

Very curious climbing vine; ornamental foliage; fruit golden-yellow; warty; 10 feet.

AC-365—BALSAMINA (Balsam Apple).—Pkt. 10c, $\frac{1}{2}$ oz. 25c.

AC-366—CHARANTIA (Balsam Pear).—Pkt. 10c, $\frac{1}{2}$ oz. 25c.



Nasturtium

NASTURTIUM

One of the most popular of all annuals. Easily grown, as they will grow most anywhere except in the shade. Blooming profusely throughout the Summer, they may be used to cover unsightly railings and to trail over rough ground with fine effect. Excellent for cut flowers.

DWARF VARIETIES

- A-370—AURORA (Terra Cotta).—Pkt. 10c, oz. 20c.
- A-371—BEAUTY OF MALVERN.—Orange-Scarlet. Pkt. 10c, oz. 20c.
- A-372—CHAMALEON.—Cream - White, bright - scarlet red and veined. Pkt. 10c, oz. 25c.
- A-373—EMPRESS OF INDIA.—Intense crimson-scarlet; extra dwarf, dark leaved. Pkt. 10c, oz. 30c.
- A-374—GOLDEN GLEAM.—Sweet scented, of very vigorous growth; bloom of a golden yellow, averaging 2 to 3 inches across. Pkt. 10c, oz. 50c.
- A-375—DWARF OR TOM THUMB MIXTURE.—Pkt. 10c, oz. 20c.
- A-376—TALL VARIETIES.—Mixed. Pkt. 10c, oz. 20c.

NIGELLA (Love in a Mist)

Handsome flower, requiring but little care. Flowers bright and showy, very curious seed pods.

- A-377—HISPANICA.—Blue. Pkt. 10c, oz. 45c.
- A-378—Double Mixed. Pkt. 10c, oz. 25c.

PANSIES

These beautiful hardy annuals should be in every flower lover's garden as they combine such a vast number of colors and shades. For early Spring blooming the seed should be sown in an open exposure in August or first part of September. Protect through the Winter with leaves or litter of some kind.

- A-380—TRIMARDEAU—Brilliant Mixture. Pkt. 25c, $\frac{1}{8}$ oz. 50c.
- A-381—MAMMOTH EXHIBITION.—Mixture. Pkt. 25c, $\frac{1}{8}$ oz. 75c.
- A-382—W.-D. CO.'s GIANT FLOWERING.—Mixed. Pkt. 25c, $\frac{1}{8}$ oz. \$1.00.

PETUNIA

These are almost indispensable for garden decoration. They flower in a few weeks' time from seed and continue to grow, bud and bloom in luxuriance until frost. Half-hardy annuals.

- A-385—ROSY MORN.—Soft rose-pink with a white throat. Dwarf growth. Single bedding variety. Pkt. 15c, $\frac{1}{4}$ oz. 50c.

- A-386—ROSE OF HEAVEN.—Dwarf, single bedding, slightly deeper rose than Rosy Morn. Pkt. 15c, $\frac{1}{4}$ oz. 50c.

- A-387—HOWARD'S STAR.—Dwarf, single bedding, purple white striped. Pkt. 10c, $\frac{1}{4}$ oz. 40c.

- A-388—CHOICE SINGLE.—Mixed Colors. Pkt. 10c, $\frac{1}{4}$ oz. 30c.

- A-389—DOUBLE FRINGED GIANT PETUNIAS.—In a splendid mixture. Pkt. 50c.

PHLOX DRUMMONDI

For beds and massing nothing can surpass these beautiful annuals. They produce immense trusses of large brilliant flowers of numberless hues throughout the Summer.

- A-390—Dark Purple. Pkt. 10c, $\frac{1}{4}$ oz. 40c.

- A-391—Rose with dark eye. Pkt. 10c, $\frac{1}{4}$ oz. 40c.

- A-392—Choice Mixed. Pkt. 10c, $\frac{1}{4}$ oz. 40c.

- P-393—DECUSATTA.—New hybrids in choice mixture, containing the new brilliant colors. Pkt. 10c, $\frac{1}{4}$ oz. 75c.

PHYSALIS (Chinese Lantern)

An ornamental plant, forming dense bushes about 2 feet high producing orange-scarlet lantern-like fruits, which can be cut and dried for Winter bouquets. Hardy Perennials.

- P-394—FRANCHETTI.—Large showy orange-like fruit. Pkt. 10c $\frac{1}{4}$ oz. 50c.

POPPIES

The flaming brilliancy of color make these real garden assets. Sow the annual sorts thinly in early Spring and do not transplant; start the perennial varieties indoors in February and transplant when safe.

HARDY ANNUALS

- A-395—SHIRLEY MIXED.—Silk or ghost poppy. Pkt. 10c, $\frac{1}{4}$ oz. 20c.

- A-396—PAEONY FLOWERED.—Double Mixed, all colors. Pkt. 10c, $\frac{1}{4}$ oz. 20c.

HARDY PERENNIALS

- P-397—ICELAND.—Yellow. Pkt. 10c, $\frac{1}{8}$ oz. 25c.

- P-398—ORIENTALE.—Large deep crimson flowers. Pkt. 10c, $\frac{1}{8}$ oz. 25c.

PORTULACA (Sun Plant)

Brilliant garden annual, 6 inches high, luxuriating in warm dry sunny situations and blooming profusely from early Summer to Autumn. Colors range through innumerable shades of red, yellow, pink, striped, white, etc.

- A-399—Extra double mixed large flowering. Pkt. 10c, $\frac{1}{4}$ oz. 75c,

- A-400—Choice single mixed. Pkt. 10c, $\frac{1}{4}$ oz. 25c.

PUERARIA (Kudzu Vine)

A very strong-growing climber. The leaves overlap each other so as to form a dense screen. Hardy Perennial.

- PC-401—THUNBERGIANA.—Pkt. 10c, oz. 25c.

PYRETHRUM

Few plants are more popular for borders. The finely cut leaves of the foliage and the bright color of the blooms make it especially attractive.

- P-402—AUREUM (Golden Feather).—Pkt. 10c, $\frac{1}{4}$ oz. 25c.

RICINUS (Castor Oil Bean)

Ornamental plants of stately growth and picturesque foliage, with brilliant colored fruit, producing subtropical effect.

- A-403—ZANZIBARIENSIS.—Large leaves, varying in color from light green to purplish red; 12 feet. Pkt. 10c, oz. 25c.

- A-404—CAMBODGENESIS.—Black foliage; 5 feet. Pkt. 10c, oz. 25c.

- A-405—Mixed Varieties. Pkt. 10c oz. 25c.

SALVIA (Scarlet Sage)

One of the most popular of the ornamental plants, attaining a height of from 2 to 3 feet; producing tall spikes of gay flowers. Fine for bedding or hedging.

- A-406—SPLENDENS.—Compacta, Bonfire. 2 feet. Pkt. 10c, $\frac{1}{4}$ oz. 50c.

SCABIOSA (Mourning Bride)

Perfectly double flowers; useful for cutting; gracefully borne upon long slender stems; range of color white to rich pink, crimson to deep red, lilac and black. Annual.

A-408—**BLACK PRINCE**.—Pkt. 10c, $\frac{1}{4}$ oz. 25c.
 A-409—**FIERY SCARLET**.—Pkt. 10c, $\frac{1}{4}$ oz. 25c.
 A-410—**SHASTA WHITE**.—Pkt. 10c, $\frac{1}{4}$ oz. 25c.
 A-411—**LILAC**.—Pkt. 10c, $\frac{1}{4}$ oz. 25c.
 A-412—**CHOICE MIXED**.—Pkt. 10c, $\frac{1}{4}$ oz. 20c.
 P-413—**SCABIOSA CAUCASICA**.—Perennial; extra fine mixed. Pkt. 10c, $\frac{1}{4}$ oz. 75c.

STOCKS (Gilliflower)

All the varieties are desirable as pot plants as well as in the open garden. They are greatly prized for cut flowers on account of their fragrance and colors. Hardy Annuals.

A-415—**Rose**. Pkt. 10c, $\frac{1}{4}$ oz. 75c.
 A-416—**Canary-Yellow**. Pkt. 10c, $\frac{1}{4}$ oz. 75c.
 A-417—**White**. Pkt. 10c, $\frac{1}{4}$ oz. 75c.
 A-418—**Dark Crimson**. Pkt. 10c, $\frac{1}{4}$ oz. 75c.
 A-419—**Dwarf Double Mixed**. Pkt. 10c, $\frac{1}{4}$ oz. 75c.

SWEET WILLIAM (Dianthus Barbatus)

There is perhaps no flower more favorably known than the Sweet William. No garden is complete without it. They are easily grown from seed and produce a wonderful array of colors. Perfectly hardy.

P-425—**Single Albus**, white. Pkt. 10c, oz. 75c.
 P-426—**Single Newport**, pink. Pkt. 10c, oz. 75c.
 P-427—**Single Pink Beauty**. Pkt. 10c, oz. 75c.
 P-428—**Single Diadem**, crimson with large white eye. Pkt. 10c, oz. 75c.
 P-429—**Single Mixed**, all colors. Pkt. 10c, oz. 50c.
 P-430—**Double Mixed**. Pkt. 10c, oz. 75c.
 A-431—**Single Mixed**, Annuals. Pkt. 10c, oz. 50c.

**SWEET PEAS**

The soil for Sweet Peas should be rich and deep. A good rich loam, with plenty of well-rotted manure in it, is the ideal soil for raising good plants that will produce plenty of blooms. Seed should be sown as early in the season as the ground can be worked, which is usually between the middle of March and the middle of April in the latitude of Baltimore. It is best to dig a trench about 6 inches deep, in the bottom of which sow the seed. Cover with about an inch of soil, pressing it down firmly. As soon as they are above the ground thin out to 2 to 4 inches apart. They should be staked up with brush or wire about 4 feet high. During dry weather water frequently.

A-420—**LATE SPENCER MIXTURE**.—This mixture contains the finest named sorts, for brilliancy and richness, it cannot be excelled. Pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 75c, lb. \$2.25.

A-421—**EARLY SPENCER MIXTURE**.—For those desiring to force under glass or early Summer flowering, as they come into bloom from 2 to 3 weeks earlier than the Late Spencer. This is also a blend of the most desirable colors. Pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 75c, lb. \$2.25.

A-422—**W.-D. CO.'S SPECIAL MIXTURE OF GRANDIFLORA VARIETIES**.—An exceptionally good mixture. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.00.

THUNBERGIA (Black Eyed Susan)

Beautiful rapid growing annual climbers, preferring a warm, sunny situation; used extensively in hanging-baskets, vases, low fences, etc., very pretty flowers in buff, white, orange, etc., with dark eyes. 4 feet. Colors.

P-432—**ELATA**.—Mixed. Pkt. 10c.

TRITOMA (Red Hot Poker)

Free blooming hardy perennial; large spikes of flowers. 2 feet.

P-433—**NEW EARLY HYBRIDS**.—Mixed. Pkt. 10c.

VERBENA

Splendid for beds or massing; the trusses and individual flowers of the largest size, of brilliant colors, free blooming and of vigorous habit, for best and quickest results seed should be sown early in the house or hotbed and transplanted to flowering quarters in May. One of the most popular garden annuals.

A-434—**Mammoth, Dark Blue**. Pkt. 10c, $\frac{1}{8}$ oz. 25c.

A-435—**Mammoth, Carmine**. Pkt. 10c, $\frac{1}{8}$ oz. 25c.

A-436—**Mammoth, Scarlet**. Pkt. 10c, $\frac{1}{8}$ oz. 25c.

A-427—**Mammoth, White**. Pkt. 10c, $\frac{1}{8}$ oz. 25c.

A-438—**Mammoth, Salmon-Pink**. Pkt. 10c, $\frac{1}{8}$ oz. 25c.

A-439—**Mammoth, Mixed all colors**. Pkt. 10c, $\frac{1}{8}$ oz. 20c.

VERONICA (Speedwell)

Of easy culture and free flowering, valued as a cut flower or for the garden. Hardy Perennial.

P-440—**Mixed**. Pkt. 10c, $\frac{1}{4}$ oz. 75c.

VINCA (Madagascar Periwinkle)

Ornamental free-blooming plants and one of the most satisfactory flowering plants we have; fine for cut flowers; every bud opening when placed in water.

A-443—**ROSEA**.—Rose, darkeye. Pkt. 10c, $\frac{1}{4}$ oz. 25c.

A-444—**ALBA**.—White, crimson eye. Pkt. 10c, $\frac{1}{4}$ oz. 25c

WALLFLOWER

Deliciously fragrant and combine many shades of color—the orange, purple and chocolate predominating. Half-hardy perennials. 1½ feet.

B-445—**Choice Mixed Colors**. Pkt. 10c, $\frac{1}{4}$ oz. 25c.

ZINNIAS

The Zinnia is one of the most brilliant, showy and satisfactory annuals, and has long been a general favorite.

DAHLIA-FLOWERED

A-446—**DREAM**.—Lavender turning to purple. Pkt. 10c, oz. \$1.00.

A-447—**CANARY BIRD**.—Deep yellow. Pkt. 10c, $\frac{1}{4}$ oz. 50c.

A-448—**SCARLET FLAME**.—Scarlet. Pkt. 10c, $\frac{1}{4}$ oz. 50c.

A-449—**METEOR**.—Dark Red. Pkt. 10c, $\frac{1}{4}$ oz. 50c.

A-450—**ORIOLE**.—Orange and Gold. Pkt. 10c, $\frac{1}{4}$ oz. 50c.

A-451—**EXTRA CHOICE DOUBLE MIXED**.—Pkt. 10c, oz. \$1.00.

A-452—**GIANTS OF CALIFORNIA**.—Double Mixed. Pkt. 10c, oz. \$1.00.

A-453—**Double Small Flowered Mixed for cutting**. Pkt. 10c, oz. 1.00

Bulbs and Plants for Spring Planting

CANNAS

For a brilliant show all Summer there is no plant excelling the Canna. It even surpasses the Geranium in its gorgeous display of brilliant colors, blooming continuously from the time of planting until cut down by frost. As Cannas are good pot plants either for Summer or Winter flowering, they may be lifted and potted in the Fall before the approach of frost. Grown in this way, they are ready to continue their good work without disturbing the plants.

AUSTRIA

Enormous flowers, beautiful canary yellow with a silvery hue inside slightly dotted with red. Both in foliage and flower this Canna surpasses all others.

YELLOW KING HUMBERT

A sport from the bronze leaved red flowering King Humbert. Flowers are yellow dotted orange-scarlet. The occasional reversion of a stalk of foliage and flowers to the typical King Humbert makes a bed of this variety very interesting. 4½ feet.

FLORENCE VAUGHAN

This is the best yellow Canna spotted with red dots. The yellow is intense, and the dots, not too pronounced, add to the beauty of the flowers without detracting from the golden mass. 4 feet.

KING HUMBERT

In this grand Canna we have a combination of the highest type of flowers with the finest bronze foliage. Its flowers measure 6 inches in diameter, produced in gigantic trusses; a brilliant orange-scarlet with bright red markings; foliage broad and massive, of a rich coppery bronze. Height 5 feet.

THE PRESIDENT

A great Canna. Immense bright red flowers in fine clusters; unquestionably the most sensational introduction in recent years. 4 feet.

The above mentioned varieties are supplied in started plants only. Ready in April and May. Price 15c each, 2 for 25c, dozen \$1.50.

DORMANT ROOTS. 75c per dozen.

CALADIUM ESCULENTUM

(Elephant's Ear)



Caladium Esculentum

Mammoth Bulbs.—10 to 12 inches in circumference. 25c each, \$2.50 dozen.

First Size Bulbs.—8 to 11 inches in circumference. 20c each, \$2.00 dozen.

Second Size Bulbs.—7 to 9 inches in circumference. 15c each, \$1.75 dozen.

Third Size Bulbs.—5 to 7 inches in circumference. 10c each, \$1.00 dozen.

FANCY LEAVED CALADIUMS

The choicest Brazilian introductions as well as a number of fine new varieties. 25c each, \$2.50 per dozen.

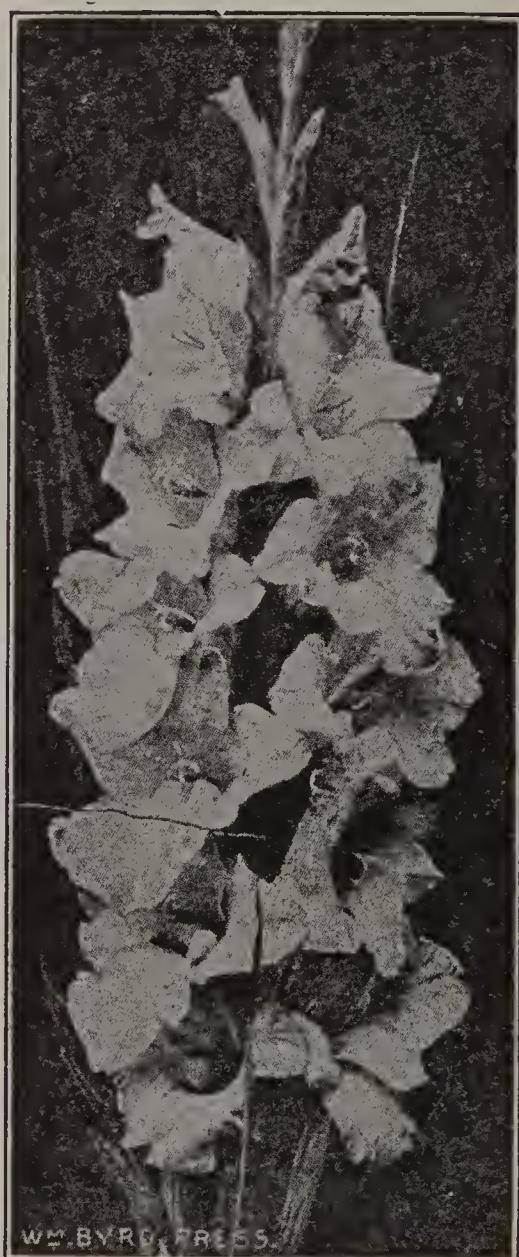
DOUBLE PEARL TUBEROSES

One of the most fragrant and beautiful of the Summer flowering bulbs. By skilful management a succession of flowers may be obtained all the year round. For early flowers they can be started in February or March in the greenhouse or hotbed, and for a succession they can be planted at intervals as late as July. For flowering in the open border plant about the middle of May, or as soon as the ground becomes warm. Each 5c, dozen 50c.

MADEIRA or MEXICAN VINE

One of the most popular climbers. Makes a thick shade, grows rapidly. Strong roots. 10c each, 60c per dozen.

GLADIOLUS



Gladiolus

A FLAME
Immense Flowers of Flaming red. 60c per doz. \$4.00 per 100.

ALBATROSS
A splendid variety of pure white flowers. 65c per doz. \$4.25 per 100.

A M E R I C A—
Conceded to be one of the finest varieties for cutting or bedding ever sent out, color a beautiful soft flesh-pink; orchid-like in its coloring and texture. 60c dozen, \$4.00 per 100.

BETTY
NUTHALL
Warm Coral-Pink with Pale Yellow Throat Markings and a slight tinge of Orange, 50c per doz. \$3.50 per 100.

DR. F. E.
BENNETT
Bright Scarlet Blooms Displaying White Spearhead Markings in the Throat. 60c per doz., \$4.00 per 100.

MRS. FRANCIS
KING — Light scarlet of pleasing shade; small blotches of red; large wide open flowers; tall spike with many buds. 50c dozen, \$3.50 per 100.

MRS. FRANK PENDLETON—Soft rose pink. One of the finest varieties yet introduced. The flowers are of largest size, borne on strong straight spikes. Exquisite in every way. 60c doz., \$4.00 per 100.

PELEGIRINA—A deep blue-violet that is particularly appealing for its color. The Blackish Blue Buds showing color to the tip of the spike. 60c per doz., \$4.00 per 100.

PEACE—Immense pure white flowers, with a touch of carmine in the lower petals. These are borne on tall, graceful spikes; a beautiful and exceedingly refined variety. 60c doz., \$4.00 per 100.

WURTTEMBERGIA—Brilliant scarlet with large creamy blotch. A most unusual and attractive variety. \$1.00 per doz., \$7.50 per 100.

DAHLIAS

We Have Carefully Revised Our List of Dahlias to Include only the Most Showy and Latest Introductions. You Will Find These Moderately Priced and a Very Good Selection. We Supply These in Dormant Roots Only.

CULTURE.—They do best in rich soil and plenty of sun, but will grow in any good garden soil, and in almost any location excepting one very shady. The bulbs or tubers should be planted in April, about 4 inches deep and 30 inches apart. An inch square stake, 3 or 4 feet long should be stuck a foot in the ground when the roots are planted, and the plants tied to it when about 2 feet high.



Hybrid Cactus Dahlia

Anna Benedict (Decorative)
Magnificent dark red; stems always erect \$1.25 each.

Alice Green (Decorative)
Beautiful Rich Golden Bronze Buff, 50c each.

Fort Monmouth (Decorative)
Rich Crimson Maroon, Tips of Bluish Violet, 35c each.

Gold Standard (Cactus)
Warm Buff Shaded with Amber and Gold, \$1.75 each.

Jersey Beauty (Decorative)
Ideal Pink, Free Bloomers.....each 25c

Jane Cowl (Decorative)
Bronze Buff and Gold.....each 25c.

Kathleen Norris (Decorative)
True Rose Pink Deepening to Mallow Pink.....each 40c.

Miss Elsie Jane (Cactus)
Pink Cream Shading in Center.....each \$1.00.

Mrs. Ide Ver Warner (Decorative)
Clear, Bright, Lilac Rose.....each 25c.

Kentucky (Decorative)
Large Yellow and Gold—Shaded Salmon.....each 50c.

Monmouth Queen (Decorative)
Immense Flowers of a Light Lemon Shade.....each 75c.

Phantom (Decorative)
Deep Violet-Purple, Tipped White.....each \$1.00

Mixed Dahlias
Splendid Assortment.....each 20c., Dozen \$2.00

Hardy Rose Bushes

These are strong, hardy, healthy plants, two year; field grown.

Price 60c each—10 for \$5.00
If wanted by Parcel Post add 10c Each.

HYBRID TEA or MONTHLY BLOOMERS

RADIANCE, Pink.—One of the best of the Tea Roses. Beautiful rose-pink.

RADIANCE, Red.—Equally as sturdy as the above. Color a bright red.

FRANCIS SCOTT KEY.—Heavy double rose of great substance. Beautiful red.

ETOILE DE HOLLAND.—Flower bright red, of medium size, deliciously fragrant.

KAISERIN AUGUSTA VICTORIA.—Pure white, with shadings of primrose yellow.

KILLARNEY.—The finest pink forcing rose in existence.

COLUMBIA.—Very large, true pink.

REV. F. PAGE, ROBERTS.—An excellent exhibition rose, of orange-yellow color, becoming lighter at the edge of petals.

TALISMAN.—Long bud, with a combination of shadings of gold, apricot, yellow, deep pink and old rose.

ETOILE DE FRANCE.—A lovely shade of clear, red-crimson velvet.

OPHELIA.—Salmon-flesh, shaded with rose, large and of perfect shape.

MRS. E. P. THOM.—Rich lemon-yellow. Perfectly shaped buds.

SOUVENIR DE CLAUDIS PERNET.—Beautiful yellow; an old favorite.

MME. BUTTERFLY.—Fragrant and shapely blooms of a delicate pink, based with gold.

GRUSS AN TEPLITZ.—Produces an abundance of crimson-maroon roses.

CLIMBING ROSES—60c each—10 for \$5.00

AMERICAN PILLAR.—Brilliant crimson-pink flowers with white centers.

CLIMBING AMERICAN BEAUTY.—Very popular, produces brilliant carmine flowers.

PAUL'S SCARLET.—Fiery scarlet flowers of excellent shape.

ERNST GRANDPIERRE.—Fragrant salmon-yellow buds turns to large creamy blooms.

WHITE DOROTHY PERKINS.—A pure white form of the popular Dorothy.

INSECTICIDES— FUNGICIDES, ETC.

ARSENATE OF LEAD (Powder)

Kills Coddling Moth, Worms, Caterpillars, Potato Bugs and all chewing insects. Dilute 1 pound to 1½ pounds to 50 gallons water. 1 lb. pkg. 30c, 4 lb. pkg. 75c, 48 lb. lb. case 15c Per lb.

ARSENATE OF LEAD (Oleate Coated)

Kills Japanese Beetle. One application should give protection throughout the Japanese Beetle Season. 1 lb. 50c, 2½ lbs. \$1.10.

ARSENATE OF ZINC (Powder)

Kills quicker than Arsenate of Lead. Can also be used at sufficient strength to insure results without injury to the plants. Dilute 2 pounds to 50 gallons water. 1 lb. pkg. 30c, 4 lb. pkg. 75c, 48 lb. pkg. 12-4 lb. pkgs. 15c per lb.

ANTROL—Kills Ants in the Nest!

This New Ready-Filled Antrol Set is ready for use. Safe around pets. Simply place the glass feeders along ant trails and the ants carry the Antrol Syrup to their nests for food, quickly killing the queen and the entire ant family. The only way to get lasting relief. Four Filled Feeders in Handy Package 40c.

BLACK LEAF 40

For spraying against sucking insects, such as Green and Woolly Aphis, Pear Psylla, Grape Leaf Hopper, Pear Thrip, etc. 1 oz. 35c, 5 oz. \$1.00, 1 lb. \$2.25, 2 lbs. \$3.25, 5 lbs. \$5.85, 10 lbs. \$10.60.

BORDEAUX (Powder)

A patented spray safer than ordinary Bordeaux Mixture. Recommended for use wherever a copper fungicide is necessary for the control of plant diseases. Can be used in combination with other spray materials; especially recommended with oil sprays when used in either dormant or summer applications. 1 lb. pkg. 30c, 4 lb. pkg. 75c.

CALCIUM ARSENATE (Powder)

For use on hardy plants, such as Cotton, Tobacco, Potatoes, Tomatoes and Grapes. Contains a higher percentage of Arsenic Oxide than is contained in Arsenate of Lead. 1 lb. pkg. 25c, 4 lb. pkg. 45c 48 lb. case 10c per lb.

CERESAN (DuBay)

For treating the seed of small grains, such as barley, oats, wheat, or rye against destructive grain diseases. 2 to 3 ounces are required for one bushel of seed. Per lb. 70c, 5 lbs. \$3.00.

CARBON DI-SULPHIDE

For the control of insects in wheat and other grains. 5 lbs. \$1.75.

CYANOGAS

Cyanogas is Calcium Cyanide Powder which liberates hydrocyanic acid gas on exposure to air.

"It's the Gas that Kills 'em."

CYANOGAS—A. For killing rats, mice, moles, woodchucks, ground hogs and other rodents. Applied with spoon or dust gun to the runs. ½ lb. 45c, 1 lb. 75c, 5 lbs. \$3.00.

CYANOGAS—G. FUMIGANT. Used for fumigating greenhouses, mushroom houses, flour mills, warehouses, buildings and for grain fumigation. Full directions for use on application. 1 lb. 75c, 5 lbs. \$3.00, 25 lbs. \$10.00 100 lbs. \$30.00.

Powder Guns for Applying the Above:

Hand size \$1.25

Foot size \$4.75.

COPPER SULPHATE (Blue Stone)

An ingredient used in the making of Bordeaux Mixture. Also used alone as a spray. 1 lb. 20c, 5 lbs. 75c, 10 lbs. \$1.25, 50 lbs. \$5.00, 100 lbs. \$9.50.

CROW REPELLENT—(Stanley's)

Will absolutely prevent crows and other corn pulling birds and animal pests such as moles, woodchucks, squirrels, etc., from pulling corn. 8 ounces is enough for one bushel of corn. 8 oz. can 60c, 1 pt. can \$1.00. 1 qt. can \$1.75c.

DRITOMIC SULPHUR

A remedy for Scab and Brown Rot on Peaches. 4 lb. bags, 60c., 48 lb. bags, 12c per lb.

INSECTICIDES—FUNGICIDES ETC.

E. D. E. (Orchard Brand) NEW PEACH TREE

Borer Control. E. D. E. is an emulsion containing 85% of ethylene dichloride. It brings to the Peach Grower, in convenient form, a new, effective and economical control of the peach tree borer. Experimental work conducted by the United States Bureau of Entomology developed the method and proved its efficiency. The emulsion can be applied either by spraying or pouring. 1 gal. \$1.50, 5 gals. \$7.50, 30 gal. drum \$1.25 per gal., 50 gals. drums \$1.00 per gal.

JAPTOX

Kills and repels Jap Beetles. It is a fine powder containing Arsenic, which, when sprayed on foliage, establishes a very pronounced silvery coating which sticks longer than any other spray material known. Very easy to apply. No inconvenient paste to work with. Not recommended for peach trees.

1-lb. canisters	\$.50	25-lb. drums.....	\$6.50
2-lb. canisters .....	.85	100-lb. drums.....	16.00
8-lb. canisters	3.00		

LIQUID KU BA TOX



A spray material; contains neither lead arsenic nor fluorine. Effective against soft body sucking insects and many chewing insects; especially desirable for use on roses and other ornamentals. Very effective against Mexican Bean Beetle when used 1 to 400. $\frac{1}{2}$ pt. cans \$1.00, 1 pt. cans \$2.00, 1 gal. cans \$10.00.

KU BA TOX (Powder)

A non poisonous insecticide for dusting on plants, contains no arsenical or other poison. Controls Flea Beetles, Mexican Bean Beetles, and chewing insects attacking ornamental plants. 1 lb. pkg. 35c, 4 lb. pkg. 20c per lb.

LIME SULPHUR SOLUTION (Liquid)

For Scale on Trees and Shrubs, and such fungus diseases as can be treated in winter or early spring. Also for Leaf Curl on Peaches.

1 gal. can.....	\$.85
5 gal. can.....	3.00
10 gal. can.....	5.50
30 gal. drums, per gal.....	.20
50 gal. drums, per gal.....	.14

Drums Not Returnable

LIME SULPHUR (Powder)

Used extensively for Scale and Leaf Curl of Peaches. 1 lb. 30c, $1\frac{1}{2}$ lb. \$1.50, 50 lb. drum \$6.50, 100 lb. drum, \$10.00.

MAGNESIUM ARSENATE

For the control of the Mexican Bean Beetle. Use dry or as a liquid spray, 1 pound to 50 gallons. 2 lb. pkg. 60c, 100 lb. drums, \$22.00.

MAGNESIUM ARSENATE DUST

(Prepared ready for use)

4 lb. pkg. 60c.	100 lb. drum \$12.00
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3% NICOTINE DUST

For Aphids, Red Bug, Pear Psylla, etc. The best contact dust for sucking insects. 100 lbs. \$14.00.

NICO FUME (Liquid)

For use as a spray or vapor, for controlling Green Fly, Aphids, etc., in greenhouses and outdoors. 1 lb. \$2.25, 4 lbs. \$5.75, 8 lbs. \$10.00.

NICO FUME PRESSURE FUMIGATOR

It is much more effective than the old loose-piles method. Nico-Fume Powder is now packed in hermetically-sealed cans. It is packed in both $\frac{1}{2}$ lb. and 1 lb. sizes. Two holes are scored, ready to be punched out, on opposite sides near the top of the can. A special lighter (small sparkler) is attached to the can. To operate punch out the two holes—light the sparkler and thrust it into the can through one of the holes. A pound can will fumigate between 25,000 and 30,000 cubic feet of greenhouse space. $\frac{1}{2}$ lb. 45c, 1 lb. 75c, $1\frac{1}{2}$ lb. cans \$4.20, 12-1 lb. cans \$7.00.

PARA-DICHLORO BENZINE. P. T. B.

This is a white crystalline product that gives off a gas that is especially deadly to the Peach Tree Borer and other insects. Apply to the soil around the base of the tree. Full directions on each package. 1 lb. 40c, 5 lbs. \$1.50, 25 lb. drum \$5.50, 100 lb. drum 20c per lb.

PARIS GREEN

The strongest and quickest killing arsenical. Used for control of potato bugs, tobacco worms, and many other chewing insects. It may be used in liquid form, 1 pound in 50 gallons of water, or with land plaster at the rate of 1 pound to 100 pounds of plaster. $\frac{1}{4}$ lb. 18c, $\frac{1}{2}$ lb. 25c, 1 lb. 50c, 2 lbs. 90c, 5 lbs. \$2.25, 14 lb. kit \$5.00.

PYROTE

A non-poisonous pyrethrum-rotenone spray. We find this to be a very effective plant spray for killing both sucking and chewing insects. It is fatal to Cabbage Worms, Aphis, Mexican Bean Beetles, Red Spider, Aster Beetles, Chrysanthemum Midge, etc., but it is harmless to humans and animals. No soap or spreader needed. Simply mix with water and spray. 1 oz. bot. 35c, 6 oz. \$1.00, pt can \$2.00, qt. \$3.50, gal. \$11.00, 5 gal. \$47.50.

PYROX—WITH NICOTINE

A combined insecticide and fungicide for the control of leaf eating insects, blights and fungus troubles. This is in paste form and need only to be mixed with water. 1 lb. 50c, 5 lbs. \$1.75, 10 lbs. \$3.00, 25 lbs. \$6.25, 50 lbs. \$10.75, 100 lbs. \$15.50.

RED ARROW SPRAY

The powerful Non-Poisonous Spray, will not stain, burn, or discolor the tenderest leaf or petal. Harmless to man, pets, or birds, but deadly to insects. Effective against Mexican Bean Beetle, Asparagus Beetle, Japanese Beetle, Cucumber Beetle, Cabbage Worms and many other insects.

1 oz. 35c makes 8 gallons
4 oz. \$1.00 makes 30 gallons
Pint \$2.85 makes 140 gallons
Quart \$5.40 makes 280 gallons

RED OXIDE COMPOUND

Increase the crops by protecting them from damping off. Treat the seeds before planting at rate of 1 pound Red Oxide Compound to 10 lbs. seed. 1 lb. pkg. 50c, 5 lb. pkg. \$2.00.

SEMESAN (DuBay)

It destroys the destructive diseases on the seed and protects them from the rots in the soil, which results in increased stands of more vigorous, healthy plants. One ounce will treat from 15 to 30 pounds of seed. 2 oz. 35c, 1 lb. \$2.25, 5 lbs. \$9.90.

INSECTICIDES—FUNGICIDES, ETC.

SEMESAN BEL (DuBay)

For Seed Potatoes. The quick dip treatment. It protects seed pieces against rotting and scab, thereby insuring maximum stands and greater yields. Mix one pound with 7½ gallons of water. This will treat from 60 to 80 bushels of seed potatoes. 4 oz. 45c, 1 lb. \$1.50, 5 lbs. \$6.75, 25 lbs. \$31.00.

SEMESAN JR.

For Seed Sweet and Field Corn. Increases crop yields by preventing rot and fungus diseases. 2 ounces will dust 1 bushel of corn. 2 ozs. 15c., 4 ozs. 30c, 1 lb. 75c, 5 lbs. \$3.25.

SLUG SHOT

A non-poisonous powder. It requires no further mixing or preparation; easily applied; not injurious or dangerous to animals; the person applying it, or fruits or vegetables treated. For Potato Bugs, Worms, Caterpillars, etc. 1 lb. pkg. 25c, 5 lb. pkg. \$1.00.

SULCOLOID

A sulphur fungicide of extreme fineness and 95% sulphur content for use against mildews, rusts, and other fungus diseases whenever a sulphur fungicide is required. 6 lb. pkg. 10c per lb., 100 lbs. 7½c per lb.

SULPHUR DUST or STRAWBERRY DUST 85-15

Contains 15 per cent Dry Arsenate of Lead and 85 per cent Flour Sulphur. A very effective dusting material for Strawberries, Cantaloupes and other Melons. 100 lb. bag \$6.50.

SULPHUR (Powder)

Used principally in greenhouses and also to prevent San Jose Scale. 1 lb. 10c, 5 lbs. 40c, 25 lbs. \$2.00.



SULROTE

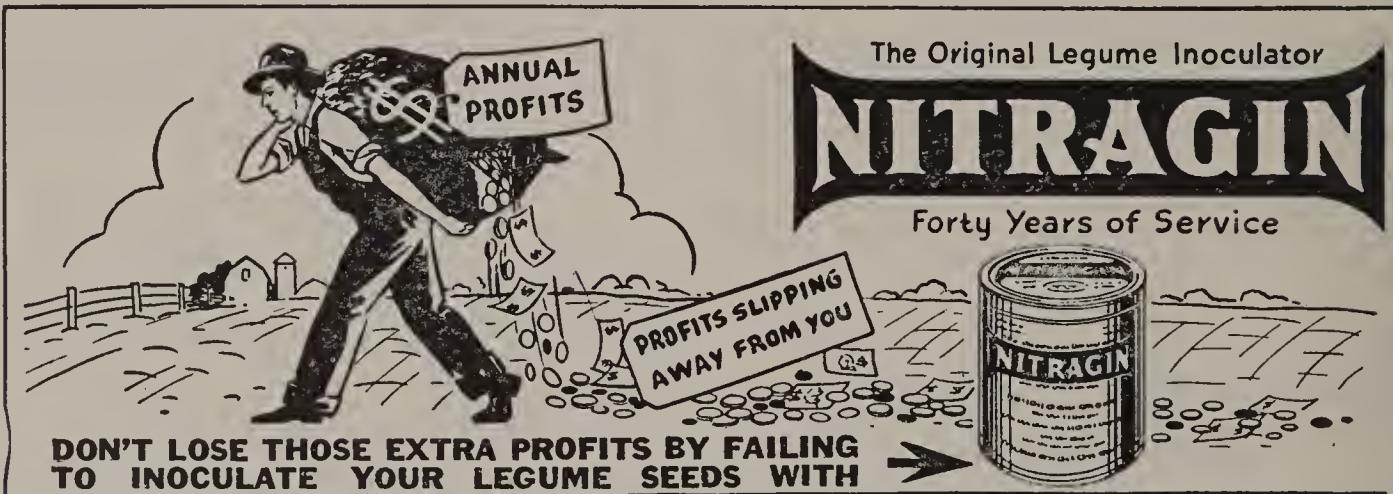
This non-poisonous dust combines rotenone with dusting sulphur, making a very effective insecticide and fungicide for the grower as well as the small garden owner. It is a splendid dust for use on cucumbers, cauliflower, etc., and especially for controlling the Mexican Bean Beetle; also for repelling Japanese Beetles. It is an excellent dust for roses, as it will control Rose Chafers and afford protection against Black Spot and Mildew; also controls Chinch Bugs in the lawn. 1 lb. 40c, 5 lbs. \$1.25, 25 lbs. or more at 18c per lb. Write for special prices on large quantities.

TOBACCO DUST

A splendid insecticide and fertilizer as well. To prevent Aphids, Fleas, Beetles, etc. Apply with duster. 5 lbs. 25c, 100 lbs. \$4.00.

VOLCK

A spray for the garden, nursery and greenhouse; effectively controls Red Spider, Mites, White Flies, Scales, Mealy Bugs, Caterpillars, Aphids, Thrip, etc.; not only kills the insects but also acts as a repellent. ½ pt. 35c, 1 qt. 75c, 1 gal. \$2.00, 5 gals. \$7.50.



NITRAGIN INOCULATION PRICES

When Ordering, ALWAYS State Name of Seed

ALFALFA, all CLOVERS

Size	Retail
½ bu. ea.....	\$.30
1 bu. ea.....	.50
2½ bu. ea.....	1.00

PEAS (All Varieties)

VETCHES (All Varieties)

½ bu. ea.....	\$.25
1 bu. ea.....	.40
1½ bu. ea.....	.60
5 bu. ea.....	1.70
12½ bu. ea.....	4.00

BEANS

String, Wax, Kidney

½ bu. ea.....	\$.25
1 bu. ea.....	.40
5 bu. ea.....	1.70

LESPEDAZA

Size	Retail
1 bu. ea.....	\$.30
2 bu. ea.....	.50
5 bu. ea.....	1.00

SOYBEANS, LIMA BEANS, COW PEAS and PEANUTS

1 bu. ea.....	\$.30
2 bu. ea.....	.50
5 bu. ea.....	1.00
10 bu. ea.....	1.60
25 bu. ea.....	3.00

GARDEN SIZE

Garden Peas and Beans

Sweet Peas and Lupines

Enough for 4 lbs. seed
Retail Price 10c each.

The Original Legume Inoculator

NITRAGIN

Forty Years of Service



BUILD UP YOUR SOIL

Inoculate Your Legumes with NITRAGIN

Make the most of your seed, soil and labor. Don't let legumes rob your soil—be sure they are soil builders!

Remember legumes NOT Inoculated are "SOIL ROBBERS" but legumes WELL Inoculated are "SOIL BUILDERS." Play Safe!

INOCULATE WITH NITRAGIN

NITRAGIN is an approved, moist humus culture—tested and guaranteed—easy to apply—packed with Billions of fresh bacteria—the cheapest legume crop insurance money can buy. Directions on every can.

NITRAGIN—the Oldest and Most Widely Used Inoculator in America

ATTENTION! TOBACCO GROWERS



Blue Mold has been controlled, for the way to fight the disease successfully has been found.

Practical growers, under practical conditions, have proved the method during several seasons. Its efficiency has been established. Behind the spraying program was careful research, lengthly experiments, point by point checking and proving. But only the results count, and these results fully justify the recommended program.

BLUE MOLD BRINGS LOSSES AND DELAY

When Blue Mold (Downy Mildew) is severe, plant bed losses may be as high as 90%—a serious shortage—making it necessary for growers to buy their plants at considerable expense. Plants not killed outright are weakened and may not survive if set in the field before they recover from the disease. The delay of several weeks waiting for recovery may bring unfavorable conditions for transplanting, and for harvesting and curing as well.

PLENTY OF PLANTS AT THE RIGHT TIME BY CONTROLLING BLUE MOLD

It is good news for growers that the constant danger of losses and delay can be prevented—not only effectively, but economically.

WHEN YOU HEAR THE DISEASE IS NEAR START SPRAYING

Do not wait for Blue Mold to appear in your own beds—prevent it by spraying promptly—as soon as disease is reported in your area. Spray twice a week and, if rain falls before spray is dry, the application should be repeated as soon as possible. Continue this schedule until Blue Mold has run its course or until plants are ready to be set in the field. Plants may be set any time after spraying. They will grow well, for they will be healthy, vigorous and disease-free.

Use the spray as a preventive measure rather than as a cure. Applied in time, with regularity, the spray will thoroughly protect your plants. Follow with care the directions for spraying. They have been carefully tested many times to produce the best results under varying conditions. Your agricultural advisors will be glad to help you with information and assistance in carrying out your spray program.

THE SPRAY MATERIALS YOU NEED

Three materials are necessary to form the effective spray mixture that will keep your plants free from Blue Mold. Here they are in the correct quantities for 100 gallons of spray;

1 lb. CUPROCIDE—The Standard Red Copper Oxide.

Control Tobacco Blue Mould by Spraying with Cuprocide—Cotton Seed Oil—Lethane Spreader Mixture, means that plenty of healthy Tobacco Plants will be ready for the field at the right time.

1 gal. Cottonseed Oil (Refined if possible).
2 qts. LETHANE SPREADER.
Enough water to make 100 gallons.

MIXING THE SPRAY

Measure accurately the proper quantities of CUPROCIDE, cottonseed oil and LETHANE SPREADER into separate containers.

1. Add just enough of the measured LETHANE SPREADER to the CUPROCIDE to make a paste.
2. Pour the cottonseed oil and the remainder of the LETHANE SPREADER together and stir thoroughly. Add one to two gallons of water. By use of a bucket pump with a nozzle attached, pump the mixture of cottonseed oil, LETHANE SPREADER and water into another bucket. This breaks up the oil into small particles and assures an even mixture. Merely stirring with a paddle will not give a satisfactory mixture—that is, one that is milky white in appearance and without drops of oil on the surface. When properly mixed, pour into spray tank 2/3 full of water.
3. Mix the CUPROCIDE paste with a little water and add to the spray tank. Add water to make the desired volume of spray in the tank.
4. Keep the spray mixture well agitated during mixing and while spraying. The mixture should not be made until just before spraying.

QUANTITIES OF MATERIALS NEEDED FOR DESIRED AMOUNT OF SPRAY

	2 1/2 Gals.	10 Gals.	50 Gals.
Cuprocide.....	1/2 oz.	1 1/2 oz.	8 oz.
Lethane Spreader	1 1/2 oz.	6 oz.	1 qt.
Cottonseed Oil.....	3 oz.	12 oz.	2 qt.

When measuring Cuprocide—5 level teaspoonfuls=1 oz. When measuring Lethane Spreader or Cottonseed Oil

2 tablespoonfuls or 6 teaspoonfuls=1 oz.
16 ounces—1 pint 32 ounces—1 quart

THE SPRAYER

For small beds a good double action bucket pump is satisfactory. For either small or large beds a wheel-barrow sprayer with 50 feet of hose and a 6 foot rod is practical. For spraying 400 square yards or more of beds a barrel sprayer (upright barrel type) including 100 feet of hose is recommended.

APPLYING THE SPRAY

Use spray rod about 6 feet long. Keep the nozzle in motion about 1 foot above the plants, moving it slowly. Use an angle nozzle, if possible, and direct it so that exposed leaf surfaces are covered. Apply spray in a fine, driving mist; plants should not be drenched. Do not spray when leaves are wet. When plants are small, 25 to 30 gallons of spray will be enough to cover 1000 square yards of bed surface (2 1/2 to 3 gallons per 100 square yards). If covers are well above beds, they may be left on during spraying, but doing so requires 1/3 more spray. When plants rise above ground, however, covers should be removed during spraying and more spray will be necessary as the plants grow.

PRICES

Cuprocide	Lethane Spreader
4 oz.	35c
1 lb.	90c
5 lbs.	\$4.00
	1 qt. 75c
	1 gal. \$1.80
	5 gals. 8.50
	Cotton Seed Oil
Gallon.....	\$1.25



This improved flower and fruit shear cuts and holds fruit and flowers after cutting. Use one hand in cutting and the shear holds the fruit or flower. Its a time saver. Particularly advantageous in cutting roses and avoiding thorns. An indispensable garden tool. Made of high grade steel. Strong and durable. Flower cutter and fruit picker all in one.

Price:

Unpolished blade.....	25c
Polished blade.....	50c

By Parcel Post 8c Additional



GALVANIZED WATER POTS

4 quart.....	\$.65
6 quart.....	.75
8 quart.....	.80
10 quart.....	.90
12 quart.....	1.10
16 quart.....	1.15

If wanted by Parcel Post add 25c each to above prices.

RURAL MAIL BOX



Top and Sides—Made of No. 20 gauge galvanized steel, with beading reinforcements, front edge curled and wired.

Door—Made of No. 18 gauge galvanized steel, the bottom edge doubled back upon itself for a distance of three inches. Hinged to the bottom with two heavy 6 inch steel galvanized "T" strap hinges. Swings downward freely and operates with ease. Fits snugly over the curled edge of opening and is weather proof.

Bottom—Made of No. 20 gauge galvanized steel and is framed into a reinforced construction consisting on sides and bottom of 1"x1.16" strap steel and on the front section of 1 inch angle iron.

Inside Measurements—23 1/8 inches long, 13 1/4 inches high, 11 inches wide.

Weight 30 pounds packed.

Price.....\$2.75

EARTHENWARE FLOWER POTS

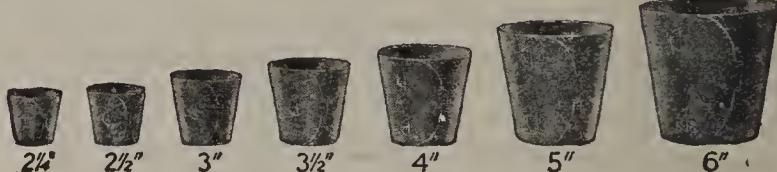
Width inside Each	Doz.	100
2 inch.....\$.03	.20	\$1.35
2 1/4 inch..... .03	.22	1.50
2 1/2 inch..... .04	.25	1.75
3 inch..... .05	.30	2.00
3 1/4 inch..... .05	.40	2.75
4 inch..... .05	.45	3.25
4 1/2 inch..... .07	.65	4.50
5 inch..... .08	.85	5.50
5 1/2 inch..... .09	1.00	6.50
6 inch..... .11	1.25	8.00
6 1/2 inch..... .15	1.50	10.50
7 inch..... .18	2.00	13.50
8 inch..... .28	3.00	19.00
9 inch..... .40	4.00	28.00
10 inch..... .55	5.50	40.00
11 inch..... 1.00	9.00	
12 inch..... 1.15	12.00	
14 inch..... 1.50	15.00	

EARTHENWARE SAUCERS

Width inside	Each	Doz.	100
4 inch.....\$.04	.40	\$ 2.75	
5 inch..... .05	.50	3.75	
6 inch..... .07	.75	5.00	
7 inch..... .09	1.00	7.00	
8 inch..... .12	1.25	9.00	
9 inch..... .15	1.50	11.00	
10 inch..... .18	1.75	13.00	
11 inch..... .30	3.00	21.00	
12 inch..... .35	3.50	23.00	
14 inch..... .40	4.00	24.00	

We cannot pack Earthenware Pots and Saucers for Parcel Post.

Bird's IMPROVED NEPONSET Flower Pots



NEPONSET FLOWER POTS (Red)

The paper from which these pots are made is water-resistant and will stand up under reasonable moisture conditions for several weeks. Used extensively in greenhouses and hot beds for starting seeds and seedlings.

	Doz.	100	1,000
2 1/4 inch.....\$.10	.40	\$ 2.60	
2 1/2 inch..... .10	.40	2.80	
3 inch..... .10	.50	3.45	
3 1/2 inch..... .15	.60	4.40	
4 inch..... .15	.70	5.35	
5 inch..... .20	.80	7.00	

NEPONSET GREEN POTS

Made of tough, waterproof paper eliminating breakage. Research has proved that this new pot encourages maximum growth. The walls of the pot are non-porous and promote a more even distribution of moisture and a better ramification of root growth than porous pots. The plants are grown from seed to maturity, sold and transported in the one Green Pot. Every grower of plants, large or small, can reduce his growing transplanting, storage and shipping costs by using Neponset Green Flower Pots.

2 1/4 inch—1000 to case	\$ 5.75
2 1/2 inch " " "	6.15
3 inch " " "	7.25
3 1/2 inch " " "	9.85
4 inch " " "	11.45

HOSE REELS

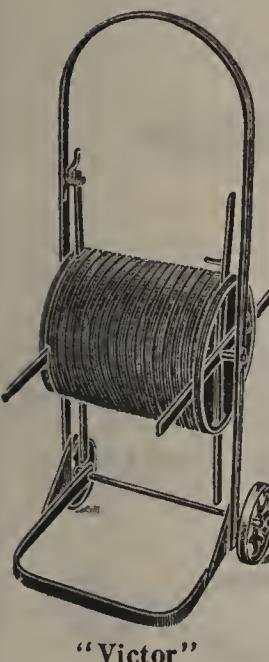
The "Victor" Reel is constructed with channel steel frame; strong, cast iron wheels; solid steel reel arm and 9-inch drum of heavy corrugated steel. Equipped with a ring on side of frame to prevent, when desired, the reel from unwinding; and with adjustable clip at top of frame for holding nozzle when spraying.

Frame enameled green, wheels and reel rack black, making a very attractive appearance.

Weight 12½ pounds, bundled for shipping. Capacity 75 feet of ¾ inch rubber hose. Price, \$1.50.

No. 2—Same as above except that it is heavier, stronger and of larger capacity. Also has an adjustable hose holder at top of frame which holds the nozzle in any position while spraying.

Weight 15 pounds, bundled for shipping. Capacity 100 feet ¾ inch rubber hose. Price, \$3.00.



"Victor"

WATER AND SPRAY HOSE**Molded Non-Kink Type**

	Per Ft.
½ inch, 2 Braid Amazon	.09
⅝ inch, 2 Braid Amazon	.10
¾ inch, 2 Braid Amazon	.10½
½ inch, 3 Braid High Pressure Spray Hose	.21
¾ inch, 2 Braid Country Club	.15

25 and 50 foot lengths Coupled Free

We can supply from Stock the following sizes:
Water Hose, 1 in., 1¼ in., 1½ in., 2 in., 2½ in., 3 in.
Suction Hose, 1 in., 1¼ in., 1½ in., 2 in., 2½ in., 3 in.
Steam Hose, ½ in. to 2 in.

Prices on Application

ADJUSTABLE HOSE NOZZLE

Made of brass, nothing to get out of order. Can be adjusted to three different streams. For ¾ inch Hose. Price, 75c, by Parcel Post 85c.

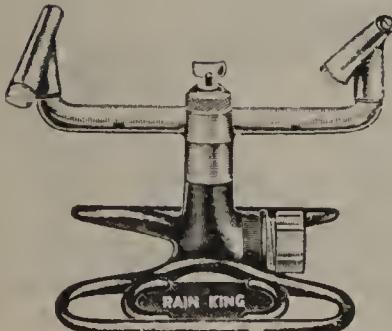
BRASS HOSE COUPLINGS

Complete		
½ in.	¾ in.	1 in.
20c	25c	35c

By P. P. 23c 28c 40c

BRASS HOSE CLAMPS

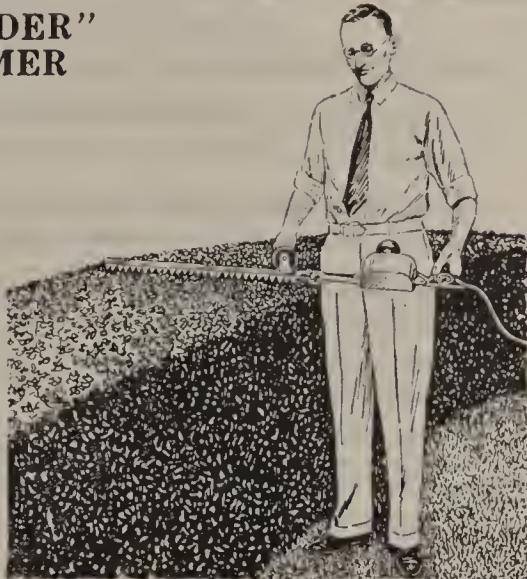
½ inch 5c, ¾ inch 5c, 1 inch 15c

RAIN KING LAWN SPRINKLER**The Best Sprinkler Made**

Waters a greater area. Fine or coarse spray. Revolving or stationary. Requires less pressure. Made entirely of brass except base. Cannot rust or stick. Has heavy bronze bearings, will last for years. Price, \$2.00, by Parcel Post \$2.15.

"LITTLE WONDER" HEDGE TRIMMER

One hour of pleasant recreation in the cool evening with the "Little Wonder" accomplishes as much as laboring all day in the hot sun with hand shears.

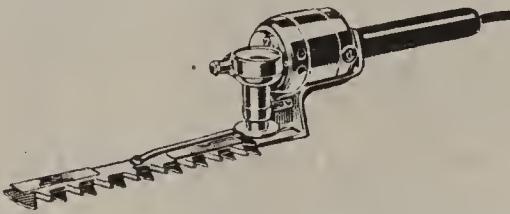
**Electric Models**

27 inch Junior with 15 feet of wire.....	\$55.00
36 inch Senior with 15 feet of wire.....	100.00
60 inch Senior with 15 feet of wire.....	105.00
High Quality Underwriter's Approved Rubber Covered Wire	
100 foot lengths.....	\$ 4.50
Handy Reel for 100 or 200 ft. lengths wire.....	1.00

Hand Models

30 inch size.....	\$27.50
40 inch size.....	30.00
60 inch size.....	35.00
Side Cutting Carriage Optional.....	5.00

Use with 30 and 40 inch sizes

NEW DUMORE ELECTRIC HEDGE TRIMMER**COSTS NO MORE THAN A GOOD LAWN MOWER.**

No other Hedge Trimmer has all these Features
Reciprocal-radial action of blades assures clean cutting of tender twigs.

Perfectly balanced; less vibration; less noise.
Exceptionally light weight—only 3¾ lbs.
Entire length only 18½ inches; cutting width 9 inches.

Only \$20.50

Prices—Rubber Covered Extension Cord

30 ft. \$2.00 50 ft. \$3.25 100 ft. \$6.00



for Men and Women

Here's a new and increasingly popular type of garden glove—specially designed to give finger freedom and complete protection.

**All-Leather — DIRT-PROOF
SOFT AS KID — Extra Pliable**

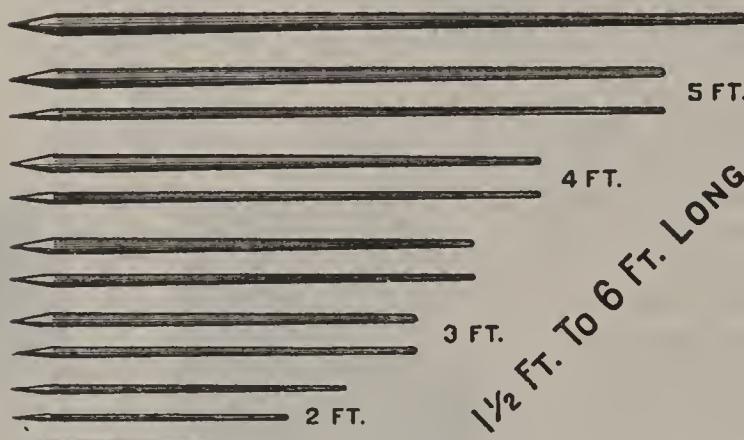
Made from select imported leather specially processed to render it amazingly soft and pliable—as well as durable. Permit almost barehand freedom with perfect comfort, yet insure complete protection from dirt, scratches, bruises, stains. Keep the hands in perfect condition.

Economical—outwear 6 pairs of ordinary fabric gloves and are useful for other home duties the year round—Housework, Painting, Yard, Furnace, Garage, etc.

WASHABLE!

Sizes for women: "Small," "Medium," "Large"—for men: "Medium" and "Large." Price, 75 cents a pair (2 pairs, \$1.40,) postpaid.

PLANT STAKES



The most symmetrical stake on the market. Tapering painted green.

Light Stakes

	Each	Dozen	Per 100
1 1/2 feet long	\$.03	\$.25	\$1.75
2 feet long	.04	.40	3.00
2 1/2 feet long	.06	.60	4.25
3 feet long	.08	.75	5.75

Heavy Stakes

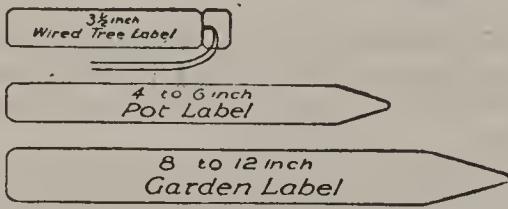
	Each	Dozen	Per 100
3 feet long	\$.12	\$1.15	\$9.00
3 1/2 feet long	.14	1.35	10.00
4 feet long	.15	1.55	11.50
5 feet long	.20	2.25	15.00
6 feet long	.25	2.50	17.90

CALIFORNIA REDWOOD PLANT STAKES

Made Square. Not Tapered.

	Each	Dozen	Per 100
3 feet long	13/16x13/16	\$.04	\$.40
4 feet long	13/16x13/16	.05	.50
5 feet long	13/16x13/16	.07	.75
6 feet long	13/16x13/16	.08	.85

POT AND TREE LABELS



	Per 100	Per 100
4 x 5/8 inch, Painted	\$.30	\$1.85
4 1/2 x 5/8 inch, Painted	.35	2.10
5 x 5/8 inch, Painted	.40	2.25
6 x 5/8 inch, Painted	.45	2.65
3 1/2 inch, Copper Wired	.35	2.45

WISS GRASS SHEARS



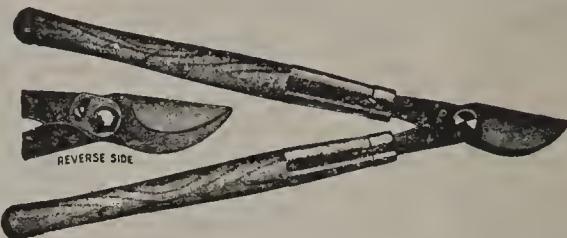
No. 500—This shear will meet the requirement of those desiring a "Real" shear. Handles slightly raised to prevent knuckles from scraping the ground. Brass spring. The same good quality that exists in all "Wiss" goods. Length 12 1/2 inches. Price \$1.50, by Parcel Post \$1.60.

GRASS SHEARS



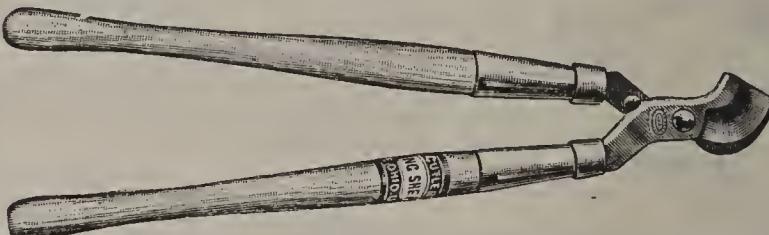
No. 346	\$.59, by Parcel Post	\$.60
No. 358	.75, by Parcel Post	.85
No. 2000	1.00, by Parcel Post	1.10

No. 230 CRONK TREE PRUNER



Made of the highest grade tool steel, carefully tempered and ground, hard wood handles, 24 inches long, 29 1/2 inches over all; heavy ferrule; heavy blades for heavy work. Weight 3 pounds 11 ounces. Blades tapered off to point to allow cutting in close places. Price \$2.75, by Parcel Post \$2.90.

No. 5406 CLYDE PRUNING SHEAR



Forged solid tool steel blade and hook and positive shear cut. Handles—Northern second growth Ash polished 4-inch pressed steel ferrule and cap.

Price:

20 inch Handle	\$1.75, by Parcel Post
24 inch Handle	2.00, by Parcel Post

VILLAGE BLACKSMITH PRUNING SHEARS

These shears are made from the best quality tool steel. Carefully tempered. Ground and set to cut and shear perfectly. If wanted sent by parcel post, add 10c each to the following prices:

V. 129—9 in.	\$.65
V. 179—9 in.	1.00
V. 139—9 in.	1.50
V. 149—9 in.	1.75
V. 21—9 in.	2.15



BUDDING AND PRUNING KNIVES

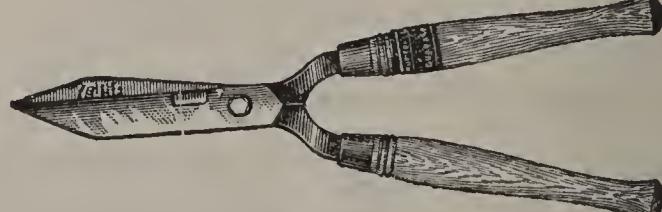


1 blade, cocoa handle, pruning, \$1.25, by Parcel Post \$1.35.



1 blade white handle, budding, \$1.50 by Parcel Post \$1.60.

HEDGE SHEARS



	American (with Notch)
7 in.	8 in.
\$.90	\$1.00
	\$1.25
	\$1.50
	\$1.75

TRIMSNIP

Hollow Ground—Full polished tempered blades. No. S. T. 07—7 in. \$1.75 No. S. T. 08—8 in. \$2.00. No. S. T. 09—9 in. \$2.25.

If wanted by Parcel Post add 20c to above prices.

DIAMOND POINT PUSH HOE



It can be used in so many different ways. No other cultivator can equal it; among roses, hardy shrubs, or annual flowers. It is just the thing for the Rock Garden and a labor saver in the vegetable garden. Serrated edge makes cutting easy. Best quality steel. Simple in construction. \$1.50.

DISSTON PRUNING SAW



This is the most practical pruning saw made. Owing to its peculiar shape, being tapered off to a point permits cutting in between the limbs. The blade is adjustable and will cut at any angle desired and can be removed to replace a new one. Made of the best quality steel.

Price..... \$2.00, by Parcel Post \$2.15
Extra Blades 40c, by Parcel Post 45c.

DOUBLE EDGE PRUNING SAW



Made of the very best material. One side has fine teeth and the opposite has coarse teeth.

Price:
16 inch..... \$1.35, by Parcel Post \$1.45
18 inch..... 1.50, by Parcel Post 1.60
20 inch..... 1.75, by Parcel Post 1.85

No. 5407 TREE TRIMMER



Both the blade and hook of this trimmer are made from the best tool steel, firmly riveted to selected Basswood handles. The sides of the hook extend down on to the handle for 6½ inches, making a firm bearing and an unusually strong connection with the pole.

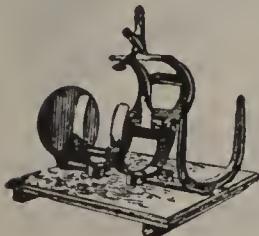
Price:
6 feet..... \$1.75
8 feet..... 2.00
10 feet..... 2.20
12 feet..... \$2.40
14 feet..... 2.60
Extra Blades..... .20

The above tree trimmers are all on long handles and cannot be sent by Parcel Post.

ASPARAGUS BUNCHER

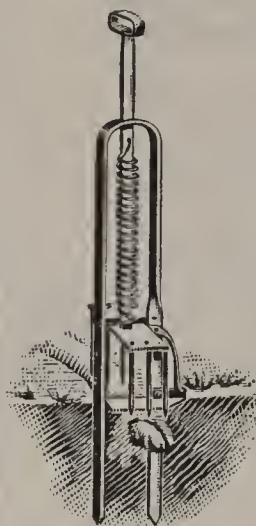
To sell asparagus to the best advantage, it must be packed right and unless you have a good buncher your bundles will not be uniform. This buncher is made of good material throughout, is adjustable for length and thickness, making a neat, compact, and uniform bundle.

Price, \$4.50



ASPARAGUS KNIVES

Made of steel. Point specially made for cutting asparagus. Price, 40c each

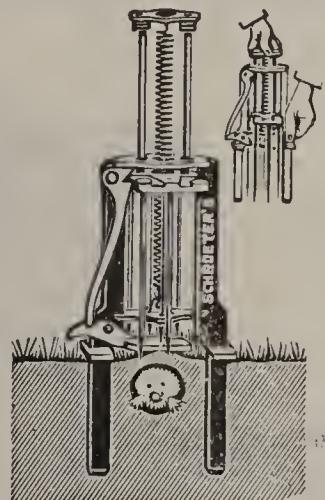


REDDICK MOLE TRAP

Reddick Traps sound "taps" for Mr. Mole and his burrowing family.

Extensively used in public or private parks, farms, schools, colleges, cemeteries, etc.

Entire Trap Double Tinned. Rust-Proof. Price \$1.25, by Parcel Post \$1.35.



SCHROETER

No. 1 IMPROVED SELF SETTING MOLE TRAP

Frame is made of malleable iron. Prongs are of tool steel. High tension spring. Especially adapted for setting in hotbeds. Just pull up spring and the lever drops into position and trap is set. Price \$1.75, by Parcel Post \$1.85.

GRAFTING WAX

For use in grafting trees, and for tree wounds. ¼ lb. 15c, by Parcel Post 20c; ½ lb. 25c, by Parcel Post 30c; lb. 40c, by Parcel Post 47c.

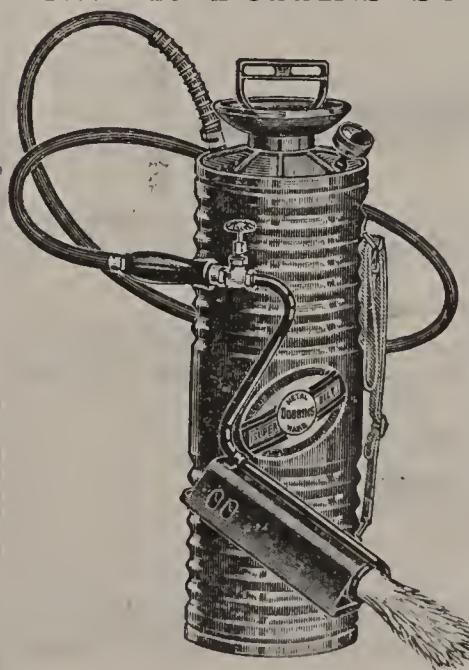


WIRE FRUIT PICKER

Well made and durable. Fruit can be picked without bruising. Made of No. 12 copperized wire. Will not rust. Price less pole 50c, by Parcel Post 60c.

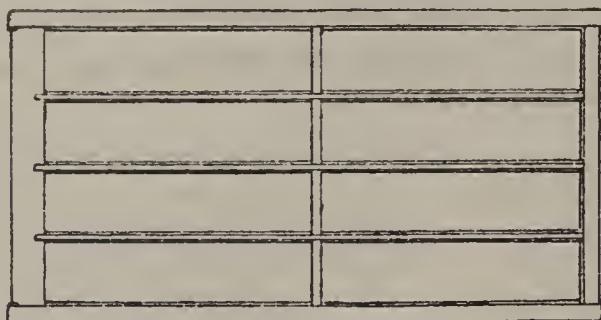
No. 210 DOBBINS SUPERBILT FLAME SPRAYER

Burns-Heats-Disenfects
Sterilizes

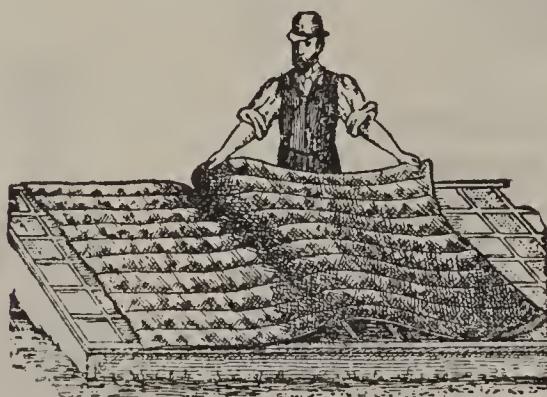


Provides an outfit of great service and utility to the farmer, rancher, poultry raiser, home owner, estates, Railroads, Contractors, Highway and Street Departments, Repair Shops, etc. Develops 2000° F. of easily portable heat that can be directed at the will of the operator. The intense heat disinfects and prevents many poultry and animal diseases, kills the germs and burns all rubbish. Capacity 4 gals.

Price \$15.00

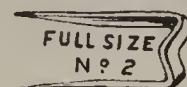
HOT BED SASH

Made of the best white pine, well mortised and perfectly clear of knots. Two sizes to hold either 24 or 28 8 x 10 panes. Price of Either Size, Unglazed.....\$1.75 each
Hot Bed Glass, 8 x 10, per box of 90 panes.....\$2.75

HOT BED MATS

Made of heavy burlap, interlined with wool.

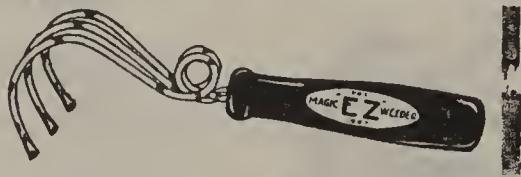
40 x 76 inches to Cover One Sash.....	\$1.75
76 x 76 inches to Cover Two Sashes.....	2.75
Special Price by the Dozen	

VAN REYPER GLAZING POINTS

Simple and positive. No rights or lefts. Per 1,000 75c, by Parcel Post 85c.

MASTICA

A very excellent material for glazing greenhouses, hotbed sash, etc. It is not affected by climatic conditions. Easy to apply. Per gallon, \$2.25.

MAGIC "E-Z" WEEDE

Light in weight, strong in construction. An excellent tool. Three-tine. Made of No. 8½ steel wire. Nicely trimmed. Black enameled handle.

Prices:

Small.....	20c, by Parcel Post 27c
Large.....	25c, by Parcel Post 32c

EXCELSIOR WEEDE

Has five fingers of heavy cast iron. Heavily tinned to keep from rusting. Black enameled handle. Price 15c, by Parcel Post 22c.

VICTORY GARDEN CULTIVATOR

A very handy garden tool. Strong and durable.
No. C3—4 foot Handle, 3 Adjustable Steel Blades\$.75
No. C5—4½ foot Handle, 5 Adjustable Steel Blades \$1.00

**SPEEDY CULTIVATOR**

A superior tool for preparing ground for seeding and cultivating after the planting is done. 4 tines. 4½ foot handle with riveted shank. Width across tines 5 inches and will dig to depth of 5 inches. No. 4-S.C. Price 75c.

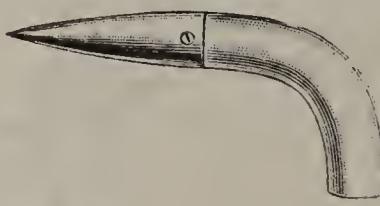
GARDEN TROWELS

No. D.S.G.T.—As illustrated. Forged from one solid piece of bar steel. Solid socket. Blades 6 x 3½ inches. Handles 6 inches long. Price, 75c, by Parcel Post, 83c.

No. 809—Kingsbury All Steel Trowel. Blade 6¼ x 3 inches. Steel handle. Price 25c, by Parcel Post 33c.

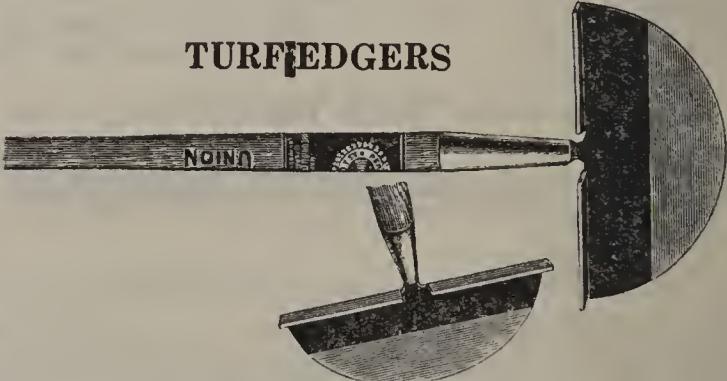
No. 217—6 inch Planting Trowel. Steel blade. 5¼ x 1½ inch wood handle. Price 15c, by Parcel Post 22c.

No. 217—Planting Trowel. Steel blade 7x2 inches. Wood handle. Price 25c, by Parcel Post 32c.

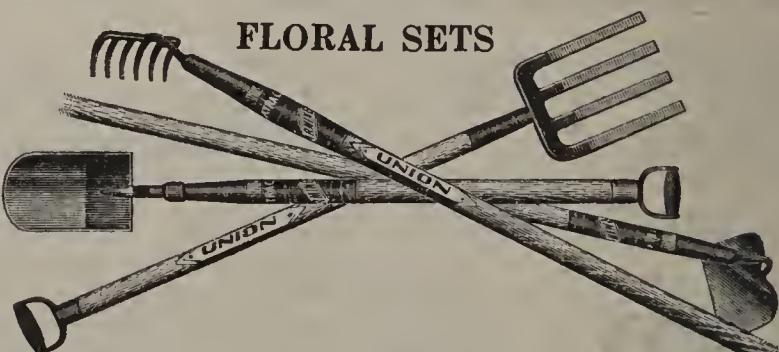
DIBBLES

No. 218—Right Angle. Wood handle. Steel point. Price 75c, by Parcel Post 85c.

Steel Points only for No. 218 Dibbles 40c.

TURFEDGERS

No. S. T. E.—Polished steel blade. Solid shank. 4-foot handle. Bronze finish. Price 90c.

FLORAL SETS

Real honest to goodness tools, not play toys.
No. 3FS—3 pieces, Shovel, Hoe and Rake. Price per set \$1.75.

No. 4FS—4 pieces, Shovel, Hoe, Rake and Spading Fork. Price per set \$2.35.

WIRE LAWN RAKES



Heavy tinned steel wire; can be reversed as can be seen by the above cut. 21 inches wide, 24 teeth.

Price, 75c.

GARDEN RAKES



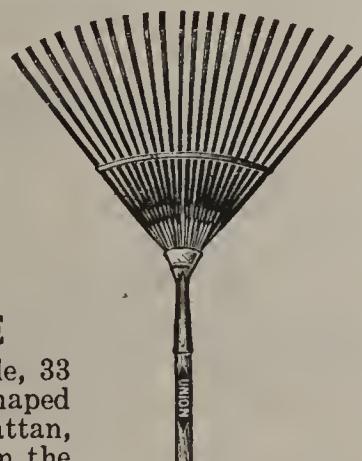
STEEL GARDEN RAKES

Forged from one solid piece of steel, teeth hammer drawn, single shanks, straight teeth.

No.	Description	Price
YS10	10 teeth	\$.70
YS12	12 teeth	.75
YS14	14 teeth	.85
YS16	16 teeth	1.10
SC12	12 curved teeth	.85
SC14	14 curved teeth	1.00
SC16	16 curved teeth	1.10
B12 Bow Braced	12 curved teeth	1.00
B14 Bow Braced	14 curved teeth	1.10
B16 Bow Braced	16 curved teeth	1.15
Malleable		
MS10	Single Shanks 10 straight teeth	\$.50
MS12	Single Shanks 12 straight teeth	.55
MS14	Single Shanks 14 straight teeth	.60
MS16	Single Shanks 16 straight teeth	.70

STEEL BRUME RAKE

The fingers of the Brume-Rake are made of strips of flat steel, which brush gently through the grass, picking up the smallest object without injuring the roots. The flexible fingers adapt themselves to every irregularity of the ground and sweep it cleanly. 22 teeth. 42 inch handle. Price 75c.



No. B. R. F. 22

SAMPY BAMBOO LAWN RAKE

Strongly made, easy to handle, 33 bamboo strips are spread fan-shaped and reinforced with wire and rattan, bent ends of bamboo strips form the teeth. Securely bolted and clamped to handle. Price 25c.

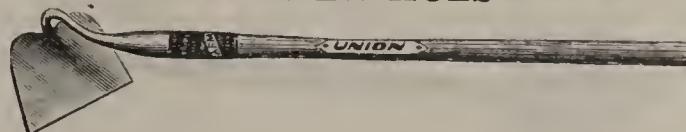
WOOD RAKES

24 Tooth, Wire Braced..... \$.60

OLE OLSEN WOOD LAWN RAKES

Made of best hardwood, well braced.
26 Teeth, Hickory Wood..... 75c

GARDEN HOES



No. YSG—Socket. Polished Blade, 6, 7 and 8 inches	\$.90
No. RHSG—Socket. 6, 7 and 8 inch blade	.75
No. HSMA—Mattock Hoe. Blade 3 inches on one side, 1½ inches on opposite side	1.00
No. SPW—Single Point Weed Hoe	.50
No. 2PW—Two Point Weed Hoe	.50
No. W7—Pointed Warren Hoes, 7 inches	1.00
No. W7½—Pointed Warren Hoes, 7½ inches	1.25

STEEL POTATO HOOKS



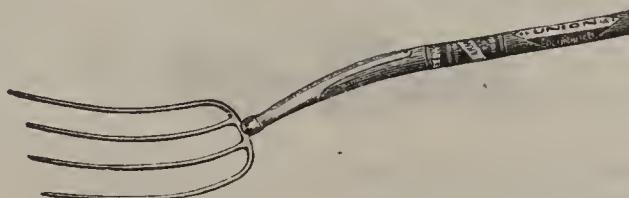
No. 4BOL—4 Light Oval Tines	\$1.00
No. 4BOH—4 Heavy Oval Tines	1.25

SPADING FORKS



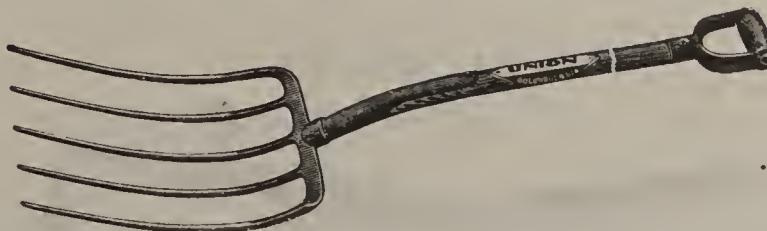
No. SALD—Light; Strapped Ferrule	\$1.00
No. JSAD—Extra Heavy Jumbo	1.50
No. E4DS4—English Pattern	1.50

MANURE FORKS



No. S44—4 Tine. Strapped Ferrule. 4-foot Handle	\$1.25
No. S44½—4 Tine. Strapped Ferrule. 4½-foot Handle	1.35
No. 44—4 Tine. Bachelor Strapped Ferrule. 4-foot Handle	1.60

HEAVY MANURE FORKS



No. EHDM4—4 Tine. D-Handle, Strap Ferrule, Extra Heavy Angular Tine	\$2.75
No. EHDM5—5 Tine. D-Handle, Strap Ferrule, Extra Heavy Angular Tine	3.00

LONG HANDLE SHOVELS



Ames No. 2 Round Point Long Handle.....	\$2.00
Stormer No. 2 Round Point Long Handle.....	1.15
Ground Hog No. 2 Round Point Long Handle.....	1.00

D-HANDLE SHOVELS



Ames No. 4 D-Handle Square Point	\$2.00
Ames No. 5 D-Handle Square Point	2.25
Hercules No. 3 D-Handle Square Point.....	1.00
Hercules No. 4 D-Handle Square Point.....	1.15
Hercules No. 5 D-Handle Square Point.....	1.25

LONG AND SHORT HANDLE SPADES



Ames No. 2 D-Handle.....	\$2.25
Ames No. 2 Long Handle.....	2.25
Hercules No. 2 D-Handle.....	1.50
Hercules No. 2 Long Handle.....	1.50

MATTOCKS



Best Quality, without Handle.....	\$1.25
With Handle.....	1.50

GRUB HOE or HALF MATTOCKS

Without Handle.....	\$1.00
With Handle.....	1.25

HAY KNIVES



LIGHTNING HAY KNIFE — \$1.75 by Parcel Post \$1.90.
AMERICAN (Sickle Edge)—Can be adjusted right or left hand. \$2.00 by Parcel Post \$2.20.

GRASS HOOKS



No. 2 English Riveted Back.....	\$.65
No. 3 English Riveted Back.....	.75
No. 4 English Riveted Back.....	.85
No. 1 1/2 Austrian.....	.60
No. 7 American.....	.50

If sent by Parcel Post, add 10c each to above prices.

GRASS AND BUSH SCYTHES



English T. Waldron, 30 to 32 inches.....	\$2.50
English T. Waldron, 34 to 36 inches	2.75
30 in. to 34 in. Grass—Swedonian	1.50
26 in. to 28 in. Weed—Swedonian	1.60
18 in. to 22 in. Bush—Swedonian.....	1.60
No. 4—32 inch, Austrian (English Pattern).....	2.25
No. 46—32 inch, Austrian.....	2.25
No. 96—32 inch, Austrian.....	2.00
No. 8 1/2—32 inch German.....	2.50

SCYTHE SNATHS



No. 55—Patent Loop Grass Snath.....	\$1.50
No. 105—Patent Loop Bush Snath	1.50
No. 100—Two-Ring Bush Snath.....	1.60

SCYTHE STONES



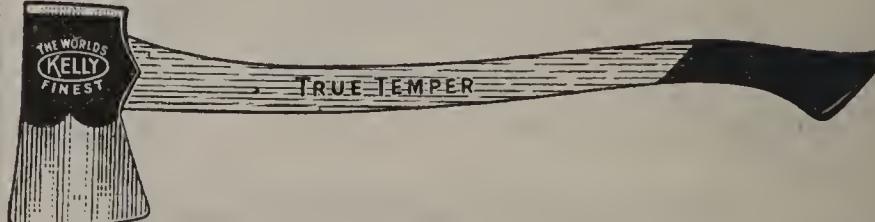
Round English.....	25c by Parcel Post 35c
Darby Creek.....	20c by Parcel Post 30c

BUSH AND BRIAR HOOKS

Axe Handle Bush Hook, Light.....	\$1.75
Axe Handle Bush Hook, Heavy.....	1.85
No. 1137—Two-Ring Bush Hook.....	1.50

If sent by Parcel Post add 15c each to above prices.

KELLY AXES



Best quality axe made. 4, 4 1/2 and 5 pounds. Handled complete with 34 inch best hickory handle. Price \$2.25.

ONE SPOT FLEA KILLER

One Spot Flea Killer will kill all the fleas on a dog or cat even if applied only on one spot as large as the animal's footprint. It does not repel fleas; it kills them. Application once a week is positive insurance against the dog's arch enemy, as it will kill any flea that lands on him before it can start raising a family and colonizing. Price 25c and 50c.

WALKO TABLETS

Especially valuable for diarrhea and loose bowl trouble among incubator chicks. They tend to prevent digestive disturbances and should be given in all drinking water from the time the chicks are out of the shell. Also recommended for swellings of roop in the head and simple catarrh among older birds. Price postpaid small size 50c large size \$1.00.

"DOGZOFF"

"Dogzoff" is a spray that is the result of much thought and scientific experimentation. Its use discourages dogs from the habits that are so destructive to evergreens and from frequenting any place where they are undesirable and not wanted. Protects your property. Is not harmful to dogs. Price 50c. By Parcel Post 60c.

KOW KARE

For over thirty years "The Great Cow Medicine," its value and appreciation is attested by an ever-increasing demand among dairymen and breeders. It is unexcelled as a general tonic for the herd that is under the severe strain of forced production and the abnormal conditions of long winter stabling and dry feeding. It cures abortion, barrenness, scours and caked udders, removes retained after-birth, etc. It increases the milk flow. For cows only.

Small Size..... \$.65
Large Size..... 1.25

**BAG BALM**

A soothing, penetrating ointment, especially adapted for all diseases of the cow's udder. Reduces inflammation, relieves irritation and local congestion and softens the tissues. For caked bag, garget or swollen udders following calving or high feeding. It promotes healing of cracked chapped skin and minor cuts; makes the teats soft and pliable. Price 60c.

**AMERICAN HORSE TONIC**

For horses only. For that logy look. It is designed for horses only and it only takes a few doses to show how quickly the animal will improve under its use. It improves the appetite. The hair or coat smooths up. Package, containing twenty-four small boxes, one dose in a box.

Price 65c per package

MILK BOTTLES

Strong and durable. Made to stand the rough usage of washing, delivery and collection on routes and sterilizing in dairy houses. Made of clear flint glass, with long neck.

	Quart	Pint	1/2 Pint
One Dozen	\$.80	\$.70	\$.60
One Gross	8.50	6.50	5.75

MILK BOTTLE CAPS

Our caps are made from 40-point thick board, and are thoroughly waterproofed with paraffine. Made with a lift to take the cap out, thus preventing spilling.

One Thousand..... \$.65
Five Thousand..... 3.00

PRATT'S POULTRY REGULATOR

The varied mineral elements of this preparation are principal ones found in the muscles, feathers, nerves, beak, bones and eggs. Since feeds are frequently deficient in some of these minerals, Pratt's Poultry Regulator acts as a desirable supplement to the diet. In addition there is embodied in Pratt's Poultry Regulator a carefully selected combination of natural vegetable products which serve as tonics, appetizers, stomachics, carminatives and aromatics.



Pkgs. 25c and 50c 12 1/2 lb. pkg. \$1.50 25 lb. pail \$2.75.

PRATT'S N-K CAPSULES (For Poultry Worms)

N-K Tablets contain nicotine and Kalama in the proper therapeutic dose. These two vermifuges are most highly recommended by all leading authorities.

ADULT SIZE—50 tablet pkg. 85c, 100 tablet pkg. \$1.50, 500 tablet pkg. \$5.50, 1000 tablet pkg. \$10.00.

CHICK SIZE.—50 tablet pkg. 55c, 100 tablet pkg. \$1.00, 500 tablet pkg. \$3.75, 1000 tablet pkg. \$6.50.

**PRATT'S DISINFECTANT**

Three times as powerful as crude carbolic acid. A sure deodorizer, germicide and liquid lice killer. Use it in roup, colds and other contagious diseases.

Pint.....	\$.35
Quart.....	.50
1/2 Gallon.....	.85
1 Gallon.....	1.45
5 Gallon Drums.....	6.50

PRATT'S POULTRY WORM POWDER

Highly recommended by leading poultrymen. Worms in poultry are one of the greatest menaces to the poultry raiser. Worms sap the vitality and reduce the egg-laying capacity. Pkg. 60c.

PRATT'S GAPE COMPOUND

For external administration. Safe, sure, and gives quick relief. Pkg. 50c.

PRATT'S LICE KILLER

For dusting in the nests, dust baths or on the poultry for the destruction of poultry lice. Put up in sifter top packages. 25c and 50c.

BLACK LEAF 40

For delousing poultry and poultry houses. Just paint the roosts; that's all. 1 oz. bottle 35c, 5 oz. bottle \$1.00.

DR. BLACKMAN'S MEDICATED LICK A BRICK

A medicated salt brick for horses, mules, cattle and sheep. It is the "common sense way to give medicine to stock." because you don't mix the medicine with the feed; because it supplies stock with salt as needed in addition to medicine and uniform salting is more important than medicine. Just drop a brick in the feed trough and the stock will do the rest. Price 25c, each.

CHAMPION CREAM SEPARATOR



This Separator maintains such uniformity in the flow of milk to the disks or in the spaces between the disks in the separator bowl that every disk does its full share of skimming. This uniformity of skimming on the part of each disk is so complete that we guarantee tests made from a sample of the whole skimmed milk to show the same degree of cleanliness in skimming as made during any part of the run.

The Champion Cream Separator has many patented features not found in other separators, among them being the Champion Perforated Distributing and Equalizing Sleeve which is the most valuable improvement ever placed in Separators and which, when combined with a disk skimming bowl, makes the Champion the best Separator made.

The Champion Steel Clutch is simple, durable and impossible to miss a catch.

The Champion Automatic Oiling System, requiring minimum of attention and guaranteed to lubricate the working parts of the Separator very much superior to any other method.

The Champion Speed Indicator, aiding the operator without special attention, to keep speed regular, which is quite essential for close separation.

No.	Capacity	Type	Height	Weight	Price
1½	150 lbs. (1 to 2 cows)	Bench	22½ ins.	55 lbs.	\$21.50
2¼	225 lbs. (1 to 3 cows)	Bench	22½ ins.	55 lbs.	24.00
3	300 lbs. (1 to 5 cows)	Bench	22½ ins.	60 lbs.	29.00
300	300 lbs. (1 to 5 cows)	Floor	45 ins.	165 lbs.	57.50
500	500 lbs. (1 to 8 cows)	Floor	47¾ ins.	210 lbs.	64.50
700	700 lbs. (1 to 14 cows)	Floor	47¾ ins.	215 lbs.	72.00
900	900 lbs. (1 to 20 cows)	Floor	47¾ ins.	220 lbs.	75.00
Steel Floor Stand for					
	No. 1½, 2¼, 3		27 ins.	35 lbs.	\$6.50
Clutch Pulley for					
	No. 300, 500, 700, 900			24 lbs.	8.50
Electric Motor					
	Attachment Complete			100 lbs.	47.50

MILKING PAILS

Sanitary Milking Pails, extra heavy, all seams soldered inside and outside.

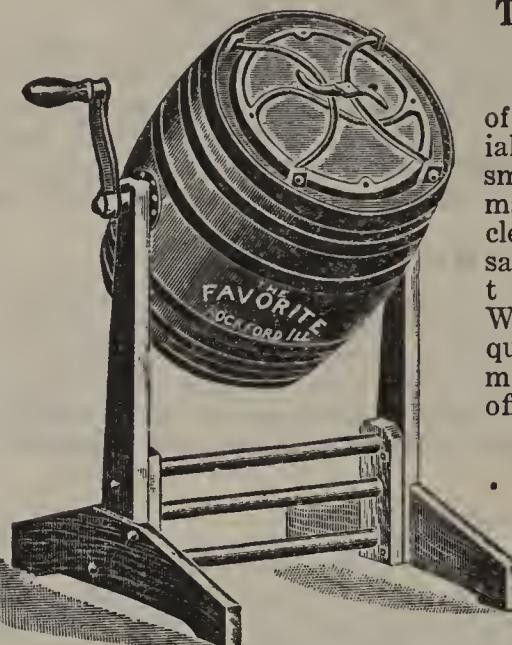
The hood keeps impurities from dropping in the pail during milking. Approved by leading milk dealers and approved and strongly recommended by dairy inspectors.

12 qt. \$1.50 14 qt. \$1.60



SANITARY MILK STRAINER

Heavy charcoal plate. With removable strainer. Price \$1.25.



THE FAVORITE CHURN

This Churn is made of good, hard material, well varnished smooth on inside, making it easy to clean and perfectly sanitary. Well braced throughout. Will make butter quickly. One of the most popular Churns offered.

No.	Size, Gallons	To Churn	Price
0	6	3	\$8.00
1	10	5	9.00
2	15	7	10.50
3	20	10	12.00
4	25	13	15.00
5	35	18	17.50

Pulleys for Large Sizes from \$2.50 to \$5.00

WELLS, RICHARDSON & CO.'S BUTTER COLOR

The best Butter Color on the market. Small bottle, colors 500 lbs., 35c; large bottles, 65c and \$1.00.

IMPROVED CEDAR CYLINDER CHURN

Made of selected cedar free of knots.

No. 1—2½ gals.	\$4.00
No. 2—4 gals.	4.75
No. 3—7 gals	5.50
No. 4—10½ gals.	6.25



ROPE, TWINE AND CORDS

3/8-inch Manila Rope	Per lb.	\$.25
1/2-inch Manila Rope	Per lb.	.24
7/8-inch Manila Rope	Per lb.	.23
3/8-inch Cotton Rope	Per lb.	.26
1/2-inch Cotton Rope	Per lb.	.25
2-ply Jute Twine (1/2 pound Balls)	Per lb.	.20
3-ply Cotton Cord (1/4 pound Balls)	Per lb.	.26
4-ply Cotton Cord (1/4 pound Balls)	Per lb.	.26
6-ply Cotton Cord (2 1/2 pound Cones)	Per lb.	.26
Raffia for Tying Asparagus (1 to 5 pound Hanks)	Per lb.	.25
Asparagus Tape—Red (1,000 Yards to Spool)	Per spool	1.75
21-ounce Fodder Yarn (25 and 50 lb. Spools)	Per lb.	.12

ASEPTIC MILKING TUBES

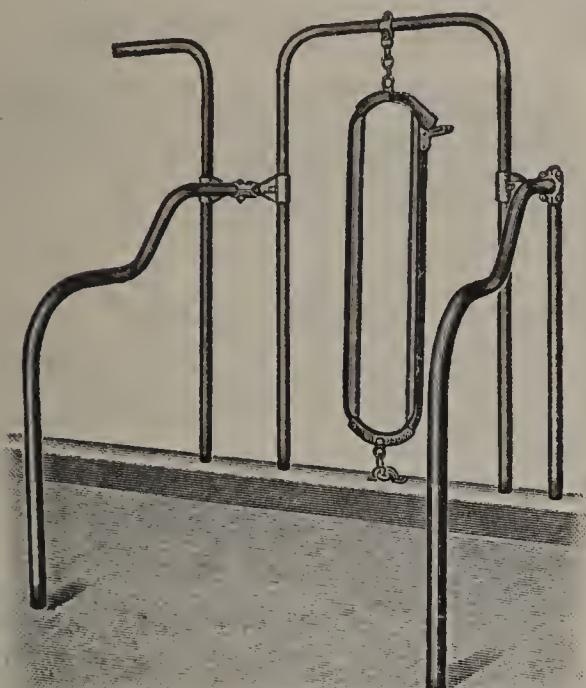
For Cows with Sore Teats
Insert one in the teat and the milk will flow.
Self Retaining Tube 40c Postpaid
Plain Tube 30c Postpaid

PUSH BROOMS

Designed for cleaning stable floors, gutters, etc. Made of good strong fibre; bristles so placed as to make it impossible for them to pull out. Prices, less handle, 75c; with handle, \$1.00.

COW STANCHIONS AND STALLS

NEY ARCH TYPE STALL



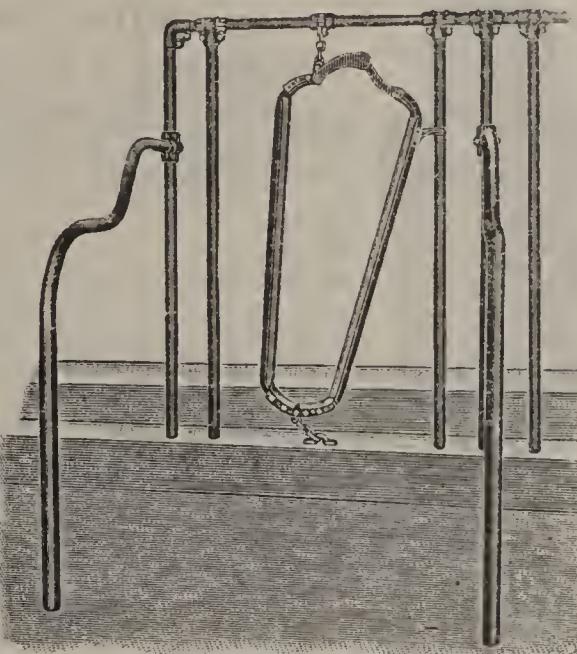
Specifications

No. 75 Stall

Made of stiff, high quality steel pipe or tubing, $1\frac{5}{8}$ " outside diameter. Fittings of heavy steel and certified malleable iron. Width of arch unit, 30", center to center. Standard width of stalls, 3'6", but are built on special order to any width up to 3'10" without extra charge. Finished in Ney gray enamel. Approximate weight per stall without stanchion, 45 lbs. Can be furnished only in $1\frac{5}{8}$ " outside diameter pipe or tubing.

Each.....\$7.35

NEY THREE POST STALL



No. 75

outside diameter, stiff, heavy steel pipe or tubing; fittings of heavy steel and certified malleable iron. Standard width of stalls, 3"6", but are built on special order to any width up to 3'10" without extra charge. Finished in Ney gray enamel. Approximate weight per stall without stanchion, 60 lbs. Can be furnished in $1\frac{5}{8}$ " outside diameter pipe or tubing upon special order, each.....\$8.50

No. 1 STANCHION

Made exceptionally strong of high-grade steel and malleable iron. Adjustment 7" to 8 $\frac{1}{2}$ " in width; finish Ney gray enamel; T-bar high carbon steel, $1\frac{1}{4}$ " x $1\frac{1}{4}$ " x $3\frac{1}{16}$ "; hard wood lining, $1\frac{3}{4}$ " wide, $\frac{1}{8}$ " thick, selected well seasoned; height of stanchion, 4'; height of stanchion, including chains, 4'11". Weight each, 20 pounds.

Each.....\$4.40



No. 1

NEY No. 15
WATER BOWL

Ney No. 15 Bowls cannot splatter or splash. They are sanitary in construction and easily cleaned. They attach anywhere and to any type of stall. The inlet is through a $\frac{3}{4}$ " street ell that may be entered at any angle. The pedal may be raised to clean out chaff, etc., and the cup need not be taken away to clean. By releasing a small trip well under the frame and not accessible to the cow, the cup may be released to swing down, but remains secure to be cleaned and is brought back into position by simply lifting up on the cup, which latches itself.

Each.....\$3.35



NEY No. 4 WATER BOWL

No. 4 Rigid Bowl is of one-piece cast iron; gray enamel finish. Has part brass valve; easily cleaned and adjusted to any water pressure. Can be attached to flat wood surface as well as pipe. Fully warranted to give satisfaction and long life. Weight 10 pounds. Each.....\$2.75

Specifications

No. 30 Stall

Built entirely of $1\frac{5}{8}$ "

outside diameter, stiff, heavy steel pipe or tubing; fittings of heavy steel and certified malleable iron. Standard width of stalls, 3"6", but are built on special order to any width up to 3'10" without extra charge. Finished in Ney gray enamel. Approximate weight per stall without stanchion, 60 lbs. Can be furnished in $1\frac{5}{8}$ " outside diameter pipe or tubing upon special order, each.....\$8.50

No. 2 STANCHION

Tubing 1-5/16" outside diameter, smooth, stiff steel; rounded ends of malleable iron; finished in Ney gray enamel. Weight 20 pounds each.

Each.....\$4.40

No. 5 STANCHION

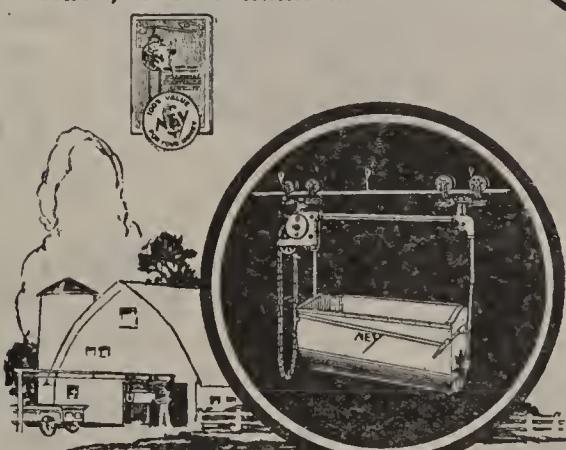
Frame, 1-5/16" x $\frac{1}{8}$ " x $3\frac{1}{16}$ " steel U-bar; lining, $1\frac{3}{8}$ " x $3\frac{1}{4}$ " seasoned hard wood. Hinge formed by bolt passing through overlapped ends of frame. Rest bracket and folding toggle parts of heavy steel. Welded top and bottom chains. Length of stanchion, including chains, 58"; width, 7 $\frac{1}{4}$ ". Finish, metal parts in Ney gray enamel, wood linseed oil. Weight 16 pounds each. Packed two in a bundle. Each, Wood Lined.....\$2.75 Each, Unlined.....2.40



No. 2



No. 5



No. 1 LITTER CARRIER

With Standard Tub, price.....\$58.00

With Large Tub, price.....60.00

No. 2 LITTER CARRIER

With Standard Tub, price.....\$50.00

With Large Tub, price.....52.00

TUB SPECIFICATIONS

Large tub, 42" long, 23" deep, 25" wide, 110 lbs.

Standard tub, 42" long, 25" wide, 19" deep, 110 pounds.

Standard Tub, only.....\$21.00

Large Tub, only.....23.00



MILK CANS

Baltimore Pattern Railroad Milk Cans

Our regular stock Can. Made of strong, very best material; straight neck, drop handle. Sizes:

20 qt.	\$3.25
30 qt.	4.25
40 qt.	4.50

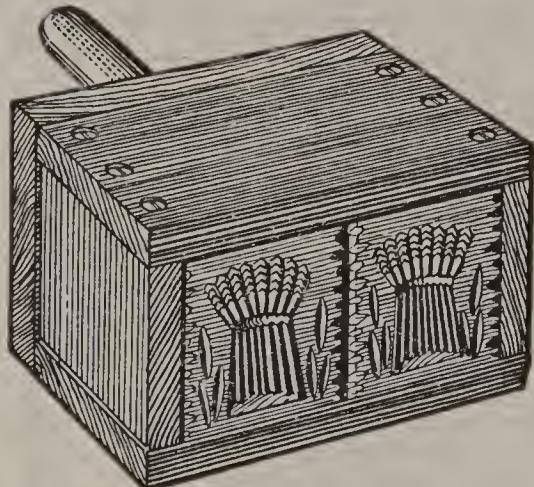
Name Plates put on 40c each.
Permit Tags 15c each.

FLOATING DAIRY THERMOMETERS



8 inch.....	Price 50c; by P. P. 55c
8 inch Flange Thermometer, stands boiling water.....	\$1.25 by P. P. \$1.35.

BALTIMORE PATTERN, HAND-MADE BUTTER MOLD



This Butter Print is handmade out of solid hard-wood, and is put together with brass screws, making it indestructible. Being a two-piece print makes it very handy to use.

Price
1/2 lb. \$1.25;
by P. P. \$1.35.
1 lb. \$1.50;
by P. P. \$1.60

BUTTER MOLD

Seeley Pattern
Furnished with Sheaf of Wheat. Movable block.

Price
1/2 lb. 65c;
by P. P. 75c.
1 lb. 85c;
by P. P. 95c

PIERCEASY BULL RINGS

A Quality Product

Made to meet the demand of stockmen who require something superior to the ordinary ring. The sharp, smooth point cuts a clean hole. Size No. RB-4, 7/16x 3 1/2. Bronze. Price \$1.75 each; by P. P. \$1.82.

COPPER RINGS, BLUNT

2 1/2 inch.....	40c, by P. P. 45c
3 inch.....	45c, by P. P. 50c

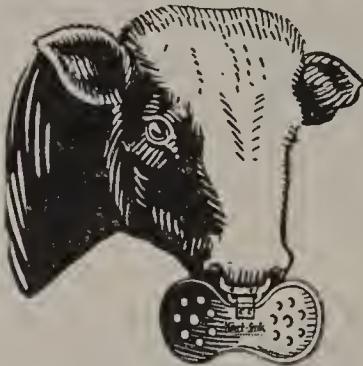


RICE'S CALF WEANER

Very effective for weaning calves and preventing cows sucking themselves.
No. 1, for calves 45c by P. P. 52c
No. 2, for heifers, 65c by P. P. 72c.
No. 3, for cows, 75c, by P. P. 82c.

PARCHMENT BUTTER PAPER

We handle only the very best quality cut in the following sizes: 6x9 for 1/2 lb. prints. 9x12 for 1 lb. prints. 10x15 for 2 lb. prints. Price per pound 30c; by P. P. 38c; Price per 5 pounds \$1.40; by P. P. \$1.52.

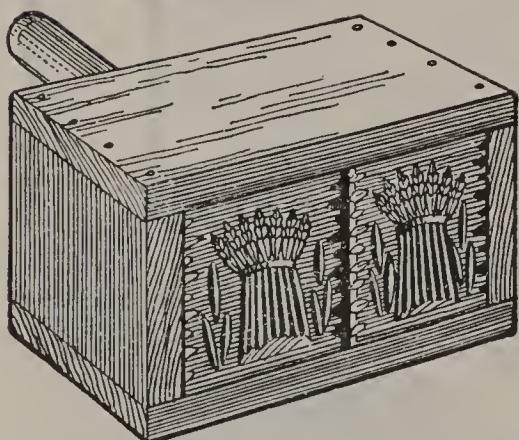


KANT-SUK CALF WEANER

Light, strong and humane—cannot possibly injure cow or calf. Being made with a hinge joint, it swings out of the way when calf eats or drinks, but effectually prevents sucking.

Calf Size No. 1055.....	45c, by P. P. 52c
Yearling Size No. 1055 1/2.....	65c, by P. P. 72c
Cow Size No. 1056.....	75c, by P. P. 82c

"SNOW BALL" FREEZER



BUTTER MOLD

Seeley Pattern
Furnished with Sheaf of Wheat. Movable block.

Price
1/2 lb. 65c;
by P. P. 75c.
1 lb. 85c;
by P. P. 95c



Simplex Platform Scale

This is the best cheap-grade Portable Platform Scale on the market. It is intended for use where a Scale is only used occasionally, and is not subject to hard usage. The iron parts are finished in black Japan, and the wood parts are painted blue, and are well finished.

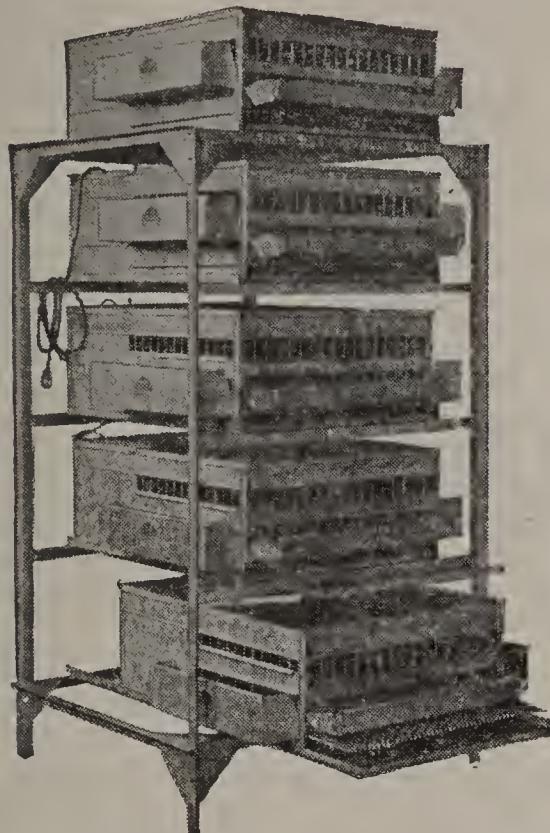
The beam is carefully graduated and made of solid brass, with brass sliding poise. The lever and beam pivots are of steel drawn to a knife edge, and are supported in hardened bearing loops.

Each Scale is sealed to U. S. Standard weights, and is carefully packed.

No.	Capacity	Price
1128	500 lbs.....	\$24.50
1124	1000 lbs.....	27.50

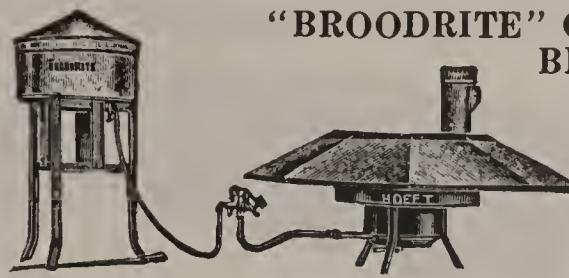


ECONOMY ELECTRIC BATTERY



Uniform temperature, wonderful ventilation. Equipped with the BESTOF ALL quick break switch, 100% automatic control, long cord, 110 volts A. C. current. Both front and back covers hinged. Capacity 80 day-old, 50 4-weeks chicks.

B-1 200 watts, 35 lb.....	\$8.95 each
B-1 Rack 38x32x68, 45 lbs.....	9.75 each
B-1 Rack 5 Brooders, 225 lbs.....	49.50 each



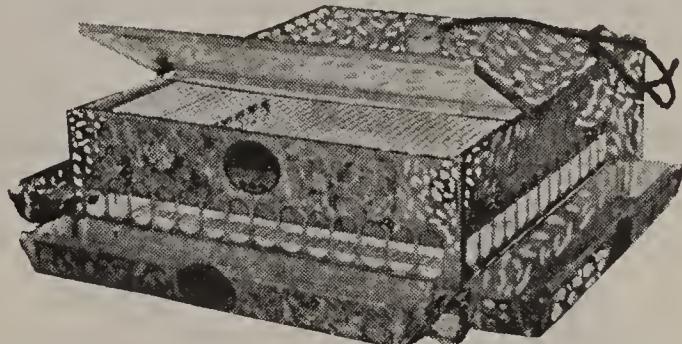
"BROODRITE" OIL BURNING BROODER

Economical, safe and highly efficient, with a wide range of adjustment from a low flame to a powerful hot blast, automatically controlled.

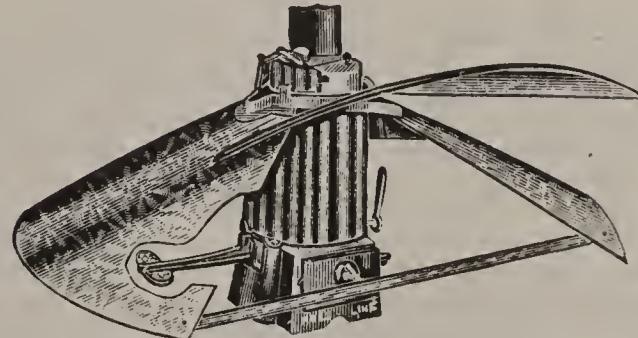
It burns low-priced No. 1 furnace oil (distillate 38-40°) or kerosene in a new marvelous burner, with a hot, clean flame and a minimum of carbon and soot. Each "Broodrite" Brooder is complete with canopy, a heavy galvanized 10-gallon fuel tank on a substantial steel stand 26 inches high, brass strainer and shut-off valve, 6 feet of copper tubing from tank to regulator, iron pipe from burner to regulator, 2 feet of iron overflow pipe, 5-inch galvanized tee and adjustable draft regulator. Use 5-inch pipe. Directions with each Brooder.

	Diam. Canopy	Day Old Chick Capacity	Recom- mended Capacity	Weight	Price
No. 238....54 in.	1000	500	78	\$20.00	
No. 239....63 in.	1250	750	85	21.50	

CONTENTED CHICK BROODER-ELECTRIC



8 Inches High—Size 20" x 24" No Cardboard B-2
All Metal..... Price \$4.50



MOE'S DOUBLE DRAFT BROODER STOVE

Moe's Coal Burning Colony Brooder is a thoroughly reliable, highly efficient and practical brooder or hover. Provides an even, continuous and correct temperature at all times. Gives the chickens an abundance of pure fresh air, with ample room for them to get sufficient exercise.

It has the latest improved Double Draft check dampers, and is self-regulating and requires but little attention.

The Stove has a large deep corrugated fire pot, and burns most any kind of fuel, but we recommend hard coal in chestnut size. The Fire Bowl is of heavy cast iron and is wider at the base than at the top, allowing the fuel to feed freely without danger of clogging, and insuring an even, well distributed fire. The Corrugated design greatly increases the amount of heat radiated.

The No. 112 Stove has a capacity of 23 pounds, No. 113 of 34 pounds, and No. 116 of 50 pounds of hard coal.

The Grate is in two sections, rocker type, center dump, making it easy to keep a clean, bright fire at all times.

The Ash Pit is large and easy of access. The bottom of the ash pit is raised from the floor and further protected with a pad of asbestos.

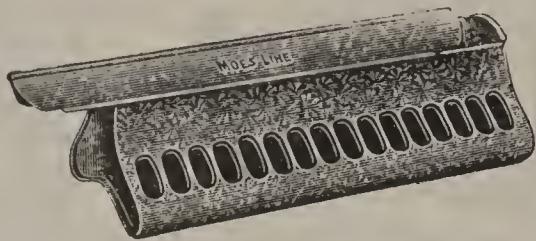
Automatic Control. The fire is automatically regulated by twin thermostats which open and close both the draft and check dampers. Easily adjusted to any desired degree of heat, and after adjustment at the beginning of the season needs no further attention.

The Canopy is of heavy galvanized steel, completely assembled, and mounted on a cast collar, with a wide door or panel, hinged at the top, giving easy access to any part of the stove.

Time-tried and tested and guaranteed to give perfect satisfaction.

No.	Diameter of Hover	Capacity Chicks	Diam. of Fire Pot	Shipping Wt. with Hover	Pipe Size	Price Complete
112	42 in.	500	10 in.	84 lbs.	4 in.	\$14.45
113	52 in.	1000	11 in.	110 lbs.	5 in.	17.90
116	56 in.	1200	13 in.	132 lbs.	5 in.	20.00

MOE'S ONE FORTY FEEDER



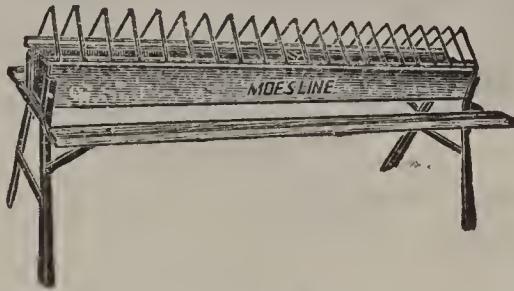
The finest feeder made to care for both large and small flocks. A wonderful feeder for young growing stock, and a great time and labor saver when chicks are raised in large numbers. Made of heavy galvanized steel with a large capacity.

Sliding top cover, easy to fill and clean, and the birds cannot roost on the cover or sides to foul the feed.

No. 140—Feeder, capacity 10 quarts, length 21 inches, width 8½ inches, height 7 inches. 16 openings on each side, so that 32 chicks can feed at one time. Shipping weight 4 pounds. Each 80c.

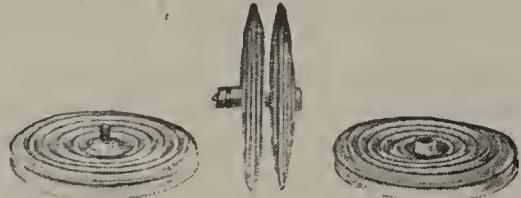
No. 141—The same style and construction as our No. 140, but much longer and with a larger capacity. Made of heavy galvanized steel, with sliding top cover, easy to fill and clean. Feeder, capacity 17 quarts, length 35 inches, width 8½ inches, height 7 inches. 27 openings on each side, so that 54 chicks can feed at one time. Packed one in a carton. Shipping weight 8 pounds each. Each \$1.25.

MOE'S WIRE GUARD FIVE FOOT FEEDER



No. 355—The trough is made of extra heavy galvanized steel and holds 32 quarts of feed. It is five feet long, 8 inches wide and 5 inches deep. Has wide turned-in flanges on each side to prevent waste of feed. The wire guards are of heavy No. 7 hard galvanized wire, correctly spaced and electrically welded. Hinged in one unit, so the entire guard can be thrown back for filling and cleaning. REMOVABLE TROUGH—The trough rests securely on the stand, but is not bolted down and can be easily lifted off to dump and clean it, which is a highly desirable feature. The stand has strong angle iron legs, well braced, complete with stout wooden perches. Total height on stand 27 inches. Height of perches 17 inches. Complete with stand and wire guards, Price \$4.95.

DOUBLE UNIT WAFER THERMOSTATS



Made of special tempered brass, vacuum filled, sensitive, accurate and durable, and begin to function at about 85 degrees Fahrenheit. The double units have a solid post between them, making each wafer independent of the other, so if one wafer should become injured the other would continue to function. Intended for oil burning or coal burning brooders, also incubators.

No. 297—3 inches..... 25c Each
No. 298—4 inches..... 40c Each
No. 299—5 inches..... 50c Each

"BEST OF ALL" FLOAT FOUNTAIN

"BEACON-BILT" FOR SERVICE

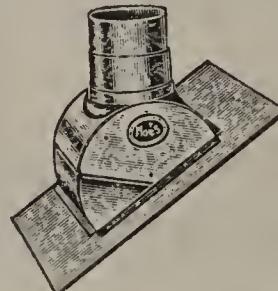
Like the Popular W-14 Except Larger Equipped with the "Best-of-All" valve. Closes completely when fountain is carried. Water starts flowing automatically. No catches to unlatch, no trouble. Float shuts water off at correct level. We repeat "Shuts off." An all-brass float, and screen which unscrews for easy cleaning. 8-gallon capacity with heavy "Beacon-Bilt" pan, non-roost top.

Heaters keep water at correct temperature and produce eggs when prices are high. Built to fit all make fountains.

HEATERS Electric, well insulated for economy. Has socket cord and plug; bulb not furnished. Oil heater has large lamp holding 4 quarts, 3 weeks supply. Latest chimneyless burner. Low operation cost.

	Capacity	Price
Model W-15—Fountain only, 8 gal.		\$3.25 each
Model W-8H—Electric Heater for W-14 or W-15	1 50	each
Model W-98—Oil Heater for W-14 or W-15	1.75	each
Model S-24—Stand only for W-15	1.60	each
Model W-15-H—Comp. with Oil Heater	4.90	each
Model W-15HS—Oil Heater and Stand	6.35	each

MOE'S ADJUSTABLE ROOF SADDLE



A storm and rain proof cap or saddle, and easily installed. Made of heavy galvanized sheet steel, with 14 x 18 inch flat roof flange or plate. Two sizes, 4 inch and 5 inch.

No. 440—For 4-inch pipe.....	\$1.50
No. 441—For 5-inch pipe.....	1.60

SMOKE PIPE TOP CAP

Chimney cap for brooder stove pipe. Made of galvanized steel to slip on the top of regular pipe. Keeps out rain and snow, and improves the draft.

Easy to install, no tools or bolts required. In two sizes.	
No. 444—For 4-inch pipe.....	30c
No. 445—For 5-inch pipe.....	35c



BROODER AND INCUBATOR THERMOMETERS

No. 127—Brooder Thermometer with black lithographed metal scale 4½ inches long. White figures and graduating. Red liquid tube, easy to read. Scale range 30 to 120 degrees Fahrenheit. Price 40c each.

TYCOS INCUBATOR THERMOMETERS—White figures on a black background. Price 75c each.

MOE'S ROUND BABY CHICK FEEDERS



Made of best quality tight coated galvanized steel, die stamped, with smooth round feeder holes. The top fits snugly on the pan, but can be easily lifted off for cleaning and filling. Made in two sizes.

Price:

No. 11—Diameter 6 inches with 8 feeder holes..... 15c
No. 12—Diameter 8½ inches with 12 feeder holes..... 20c

MOE'S DIXIE CHICK FEEDERS



Made of best quality galvanized steel, accurately stamped with dies. The round troughs are easily filled and cleaned, and have a turned in flange to prevent waste of feed. Width of trough 3 inches, fitted with heavy wire top guard to keep the chicks out of the feeder, and this guard is adjustable so it can be raised as the chicks grow.

Price:

No. 460—Length 18 inches..... 20c Each
No. 462—Length 30 inches..... 30c Each

MOE'S STAR FOUNTAIN

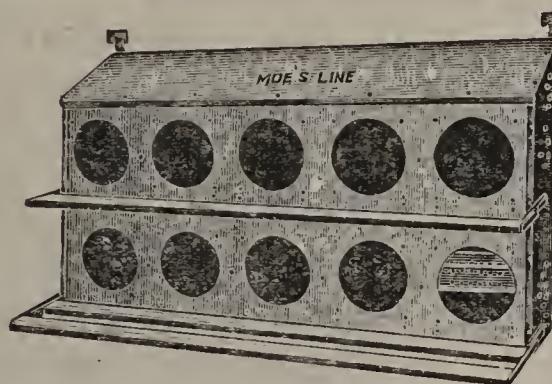
Quickly screwed to a Mason jar and provides a greater drinking surface than the ordinary round fountains. Convenient, practical, durable and low in price. Can be used for chick feed as well as water. Made in one size and will fit 1-pint, 1-quart and 2-quart jars. (We do not furnish glass jars.) Price 10c each, 3 for 25c.



ROUND MASON JAR FOUNTAIN



Made of heavy rust resisting metal. Diameter 6 inches. Made only in one size, but will fit Mason jar in sizes 1 pint, 1 quart and 2 quarts. (We do not furnish the glass jars.) 10c each, 3 for 25c.



Moe's All-Metal Nests are made of heavy galvanized steel with stout wood perch bars. These nests are easily kept clean, dry and free from mites and vermin. A pitched roof prevents roosting on top and the wood bars are hinged so they can be folded up to close the doors. Furnished with either open back or sheet metal back.

No. 510 5 Hole Nest Open Back Wgt. 28 lbs. each \$5.75
No. 511 5 Hole Nest Closed Back Wgt. 32 lbs. each 6.25
No. 512 10 Hole Nest Open Back Wgt. 49 lbs. each 9.00
No. 513 10 Hole Nest Closed Back Wgt. 58 lbs. each 10.50
No. 514 15 Hole Nest Open Back Wgt. 70 lbs. each 12.50
No. 515 15 Hole Nest Closed Back Wgt. 84 lbs. each 14.75

Trap Fronts (as shown in the lower right hand nest door), each 35c extra.

MOE'S ALL-METAL NESTS

"BEST OF ALL" BEACON FEEDER



6 and 8 feet of feeding space. 4½ inches wide center feed. Non-waste. 4 vane metal reel. Adjustable non-breakable reel holders with adjustable ends. Remember, there isn't anything better than the "Best," no matter at what price.

Model	Length	Price
F-6	36 inches	68c
F-7	48 inches	80c

ALL-PURPOSE FLOAT FOUNTAIN



Equipped with the famous Beacon "Best of All" valve, these fountains have reduced labor costs for hundreds of poultry raisers. The valve is all brass and double acting, no adjustments. W-13 specially adapted for baby chicks.

Model	Capacity	Price
W-13	10 Qts.	\$1.25

THE BEACON FEEDER



The best and largest feeder for the money. A galvanized one-piece die-drawn pan with a single adjustable wire guard. Can be used for either feed or water. Square bottom with tapered sides for center feed.

Model	Length	Price
F-0	12 inches	15c
F-1	18 inches	20c
F-2	28 inches	25c

TOP FILL FOUNTAIN (Double Wall)

New non-roost top—convenient handles — improved valve. A new leader in the BEACON line. Special built pan with full thickness of galvanizing where protective coating of zinc is needed most.

It is a vacuum fountain and the operation is the same as others—it is only in the material and workmanship this fountain is different.

Fountains have sure-hold valve to retain water while tank is being filled. Inside handle for easy carrying. 44 inches drinking space. On W-25, W-28.

Model	Capacity	Price
W-23	3 gal.	\$1.50 ea.
W-25	5 gal.	2.00 ea.
W-28	8 gal.	3.25 ea.



S-24 Stand and W-8 or W-9 Heaters can be used with W-25 and W-28 Fountains.

MOE'S AUTOMATIC POULTRY FOUNTAIN



A perfect automatic valve and float, to regulate the flow of water to a drinking dish. The valve mechanism is entirely of brass, nickel finish, with nothing about it to rust or clog up. Positive in action. Can be attached to any iron water pipe or to a barrel or tank, and insures a continuous, automatic flow of water, without waste. Valve is threaded for $\frac{1}{4}$ -inch iron pipe. The wire holds the float up while pan is being cleaned or removed.

Price:

No. 30—Automatic valve and float only 95c
Drinking pan or dish not included.

MOE'S LEADER CHICK FEEDER



Made of prime galvanized steel, accurately die stamped. The pan and top are each made of a single piece of metal, no seams or solder used. Sliding top easy to fill and clean. A very satisfactory low priced feeder. Width of trough $4\frac{1}{2}$ inches at top.

Prices:

No. 520—Length 13 inches, 16 holes 10c Each
No. 521—Length 23 inches, 32 holes 20c Each



Eliminate breakage and save your profit. You can do this if you will pack your eggs in the Continental Safety Egg Carton. Place your eggs, give a "Twist of the Twine," and the trick is done. Used extensively by poultymen all over the country.

Price:

Dozen	Hundred	Per case of 250	Per thousand
25c	\$1.60	\$3.75	\$14.00

Mailing weight about 2 pounds to dozen.

FRENCH POULTRY KILLING KNIFE



Made of finely tempered instrument steel, with nickel handle; will last a life-time. Price 50c postpaid.



THE PHILADELPHIA POULTRY MARKER

Well made, with steel spring and cutter nickel-plated. Made in two sizes.

Price 25c, postpaid

PILLING LANSDOWNE POULTRY MARKER

Look at illustration and see how easy it is to use. Large or small size.

25c postpaid



PHILADELPHIA GAPE WORM EXTRACTOR

Price 25c, postpaid



Instead of
Fragile Glass
use Unbreakable
CEL-O-GLASS

THE NEW UNBREAKABLE GLASS

It is the most economical and practical glazing material on the market. It replaces ordinary fragile—costly glass for nearly every purpose. It is made of coarse mesh galvanized wire cloth, treated in such a manner that the spaces between the strands are filled with a clear, translucent flexible substance that will not rub off, peel or become brittle. It is not affected by weather conditions. 36 inches wide, 40c per running foot.



CELLULOID LEG BANDS

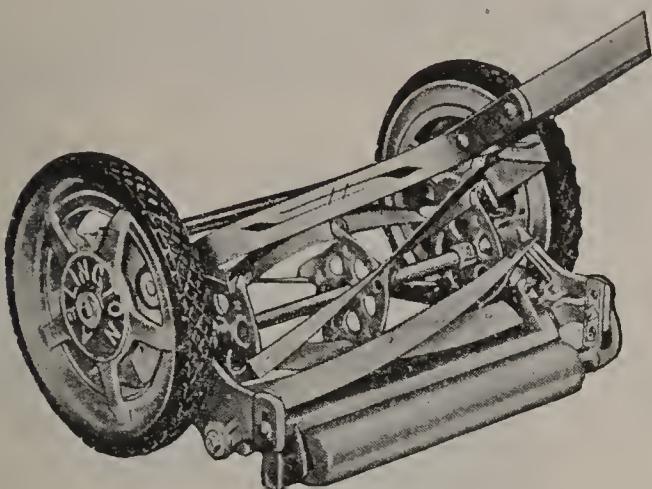
Made of celluloid, in fast colors. Sizes for large and small poultry, baby chick and pigeon.

12.....15c 50.....50c 100.....75c

PORCELAIN NEST EGGS

The hen persuader. Persuades her to use the same nest, persuades her to lay more eggs; in fact the eggs are so natural, she feels perfectly at home setting on them. Price, 30c per dozen, by parcel post 40c per dozen.

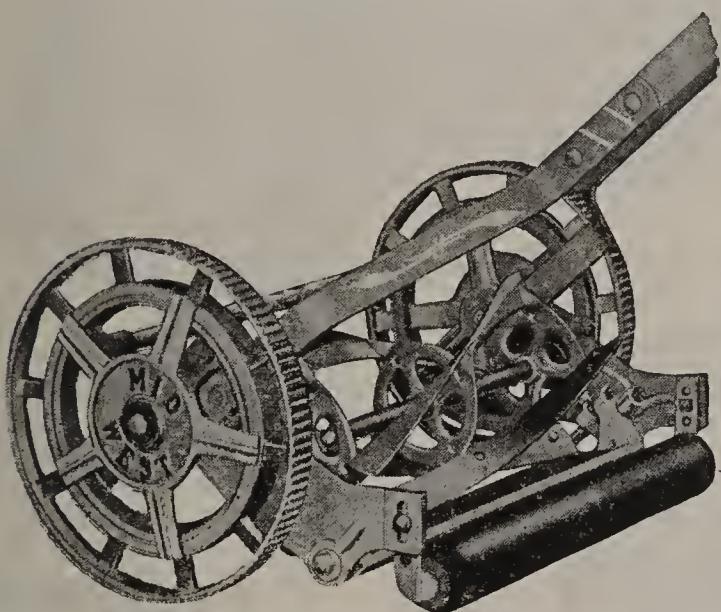
ECLIPSE-BUILT—ARLINGTON



5 BLADES

An exceptional value in a five-blade Mower. Equipped with new Adams Sharpener and Goodyear half-tone cushion tires. 14" \$8.30 16" \$8.60 18" \$9.25

ECLIPSE-BUILT—MIDWEST

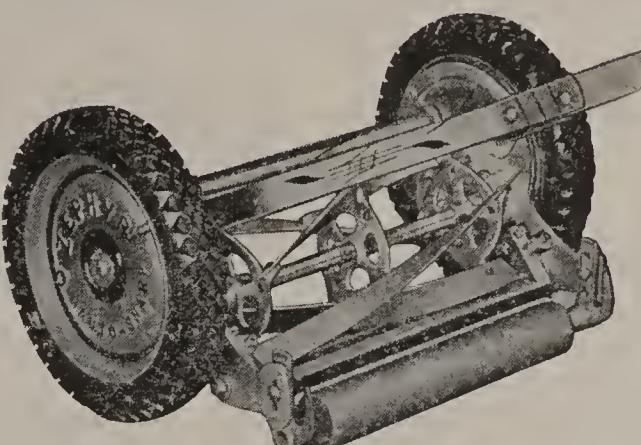


A wonderful lawn mower value—easy running—smooth cutting with 10" standard-type wheels.

Rio Grande—5-blades 14" \$6.70 16" \$7.00 18" \$7.65
Mid West—4-blades 14" \$6.35 16" \$6.70 18" \$7.35

ECLIPSE-BUILT—ZEPHYR AUTOSHARP

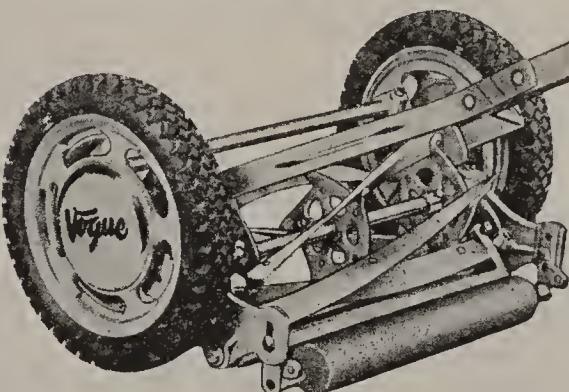
A top value in Eclipse-Built Standard Mowers. Has Eclipse Self-Sharpening feature.



5-BLADES—PNEUMATIC TIRES

14"	\$13.55	16"	\$14.25	18"	\$15.30
		4-BLADES—PNEUMATIC TIRES			
14"	\$12.85	16"	\$13.55	18"	\$14.60
		5-BLADES—SEMI PNEUMATIC TIRES			
14"	\$12.10	16"	\$12.85	18"	\$13.90
		4-BLADES—SEMI PNEUMATIC TIRES			
14"	\$11.40	16"	\$12.10	18"	\$13.25

ECLIPSE BUILT—VOGUE



A new modernized Eclipse model with Chromium hub caps. A highly popular mower equipped with new Adams Sharpener and Goodyear Valveless Pneumatic Tires. 5-blades. 10½ inch wheel.

16" \$11.50 18" \$12.00

GOLDWELL LAWN MOWERS



REGAL

One of the finest mowers ever offered. Roller Bearings 10½" Wheels. 5 cutting blades.

Price 16" \$21.50 18" \$22.75

AMBASSADOR

A quality mower of medium weight. Ball Bearings. 10" Wheels. 5 cutting blades.

Price 14" \$15.00 16" \$16.00 18" \$17.00

SUBURBAN

A popular-priced, high-grade mower. Ball Bearing. 10" Wheels with 1¼" Pneumatic Tires. 5 cutting blades. Price 14" \$14.50 16" \$15.00 18" \$16.00

INTERSTATE

A substantially built mower that is medium priced and of unusual quality. Ball Bearings. 10" Wheels. 5 cutting blades.

Price 14" \$10.50 16" \$11.00 18" \$11.50

CORNWALL

A strong light-weight, durable mower. Ball Bearing. 10" Wheels. 4 or 5 cutting blades.

Price—4 Blades 14" \$6.50 16" \$6.75 18" \$7.00
Price—5 Blades 14" \$7.00 16" \$7.25 18" \$7.50

PACEMAKER

A Goodyear Semi-Pneumatic, Rubber Tired Mower with a heavy tread. Ball Bearings. 10" Wheels. 5 cutting blades.

Price 14" \$12.00 16" \$12.50 18" \$13.25

KENT

A popular-priced lawn mower for the small lawn. Light in weight. Ball Bearings. 8" Wheels. 4 cutting blades.

Price 12" \$5.75 14" \$6.00 16" \$6.25

ECLIPSE POWER MOWING EQUIPMENT

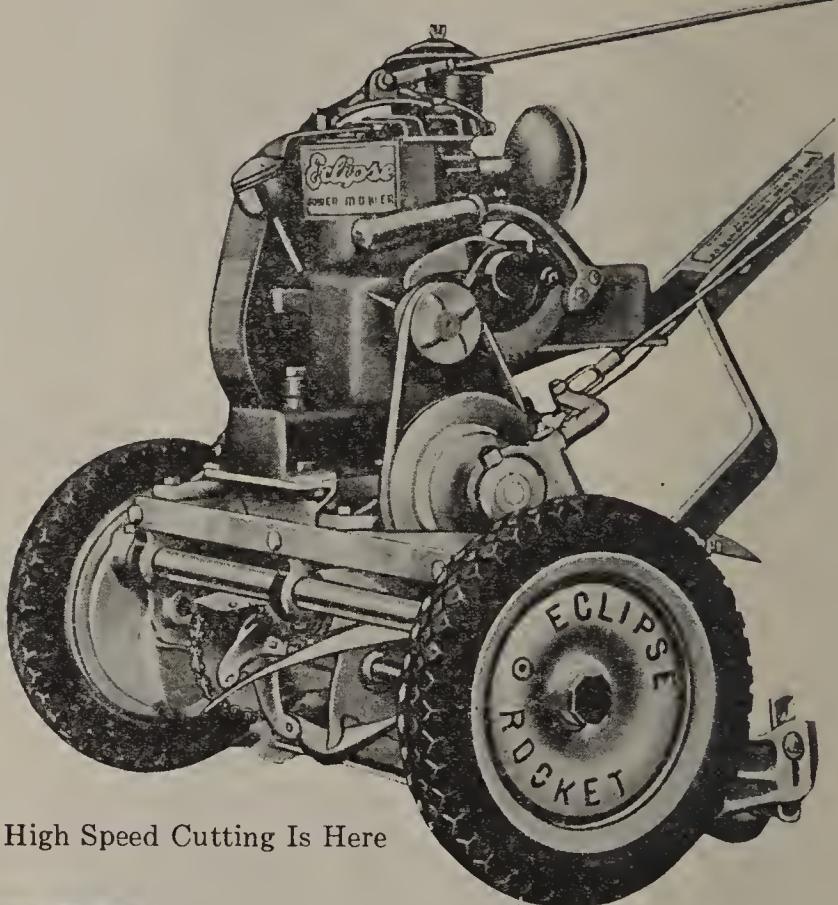
BUILT BY THE WORLD'S LARGEST PRODUCERS OF POWER MOWERS

The Eclipse ROCKET

A Personal Home Power Mower

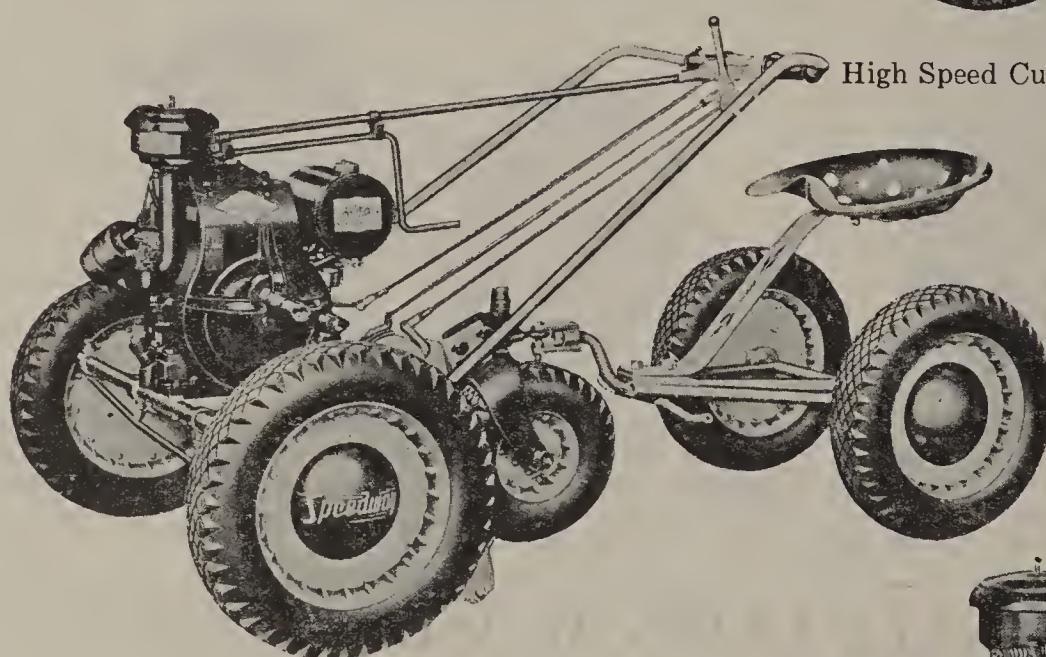
Built for family operation and service. Brings the keen enjoyment of effortless, motorized mowing to every home. Starred with features which remove the drudgery of old-style lawn mowing methods. Full 20" cut, Briggs & Stratton Engine, Timken Bearings, Goodyear Rubber Tires, Self-Sharpening. Own a Rocket this year.

F.O.B. FACTORY **79.50**



THE NEW ECLIPSE SPEEDWAY

5 to 7 Miles Per Hour



High Speed Cutting Is Here

Revolutionary in design and performance. Speedway cuts a 32" swath 150 feet long in 15 seconds—175 square yards a minute equal to 2 acres an hour. Complete turn in its own width. Goodyear Pneumatic Tires.

PRICES—Speedway and Rightoway:
SPEEDWAY—32" cut

High speed—double capacity, \$345.00.

RIGHTOWAY—27" cut

Same record-breaking economies as
Speedway, \$270.00

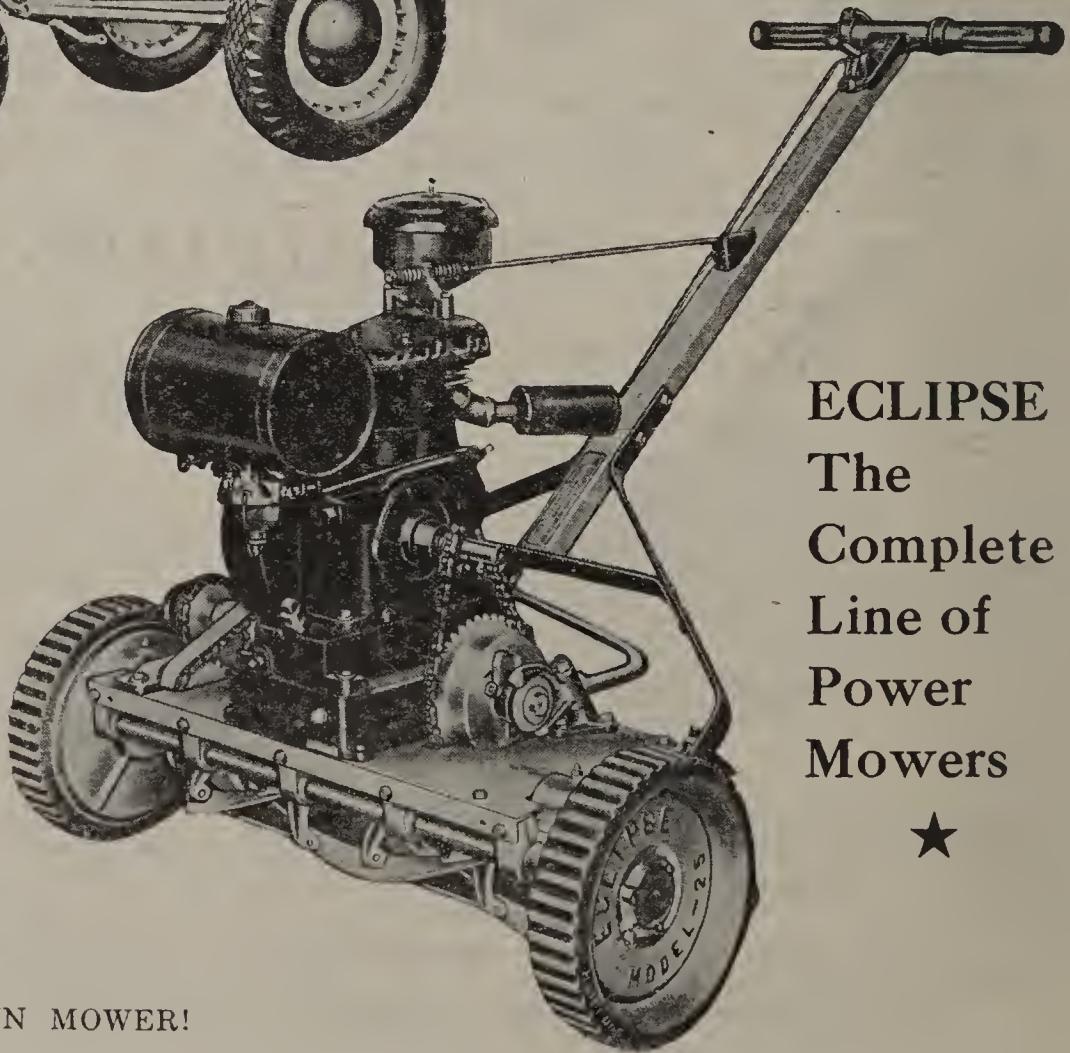
Sulky-extra, \$33.50.

The Eclipse RANGER

25" CUT

Designed and built by Eclipse for heavy duty mowing. Solid rubber tires. Briggs & Stratton 1-1/4 H. P. Engine. Speed 1 1/2 to 3 1/2 miles per hour. 11" wheels with 3" tread. An extra strong mower for mowing large acreages. Price \$190.00.

ECLIPSE—THE WORLD'S BEST LAWN MOWER!



ECLIPSE
The
Complete
Line of
Power
Mowers



PLANET JR. HAND WHEEL HOES AND GARDEN PLOWS

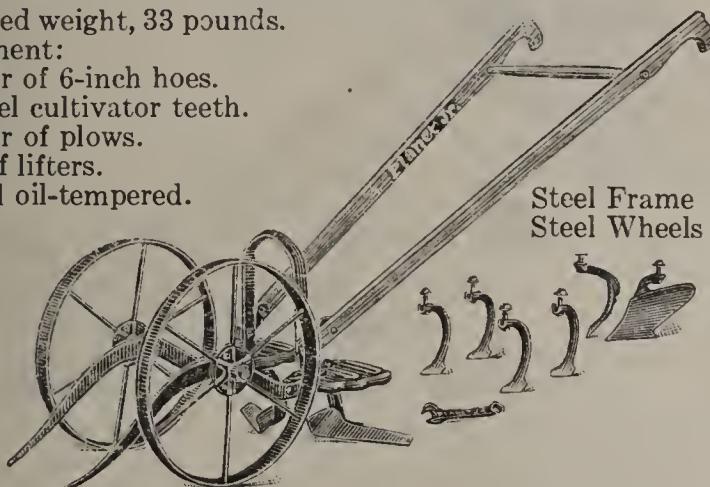
No. 12 PLANET JR. DOUBLE AND SINGLE-WHEEL HOE COMBINED

Packed weight, 33 pounds.

Equipment:

- 1 pair of 6-inch hoes.
- 4 steel cultivator teeth.
- 1 pair of plows.
- 2 leaf lifters.

All oil-tempered.



The No. 12 is the most popular Double-Wheel Hoe. It can be used by man, woman or boy. It is identical with No. 11, except that the 4½-inch hoes and the rakes are omitted from the equipment, and it is sold at a correspondingly less price. The attachments with it are what gardeners use most, and the short hoes, rakes and any of the attachments can be added at any time. You'll be astonished how easy it is to save time, labor, money and get bigger crops if you use it. Price \$11.50.

No. 11—The same as above except that it has one pair 4½-inch hoes, two 3-tooth rakes and two 5-tooth rakes, in addition. Price \$14.50.

No. 13—Is constructed the same as the No. 12 (shown above) but has for the equipment one pair 6-inch hoes only. Price \$8.75.

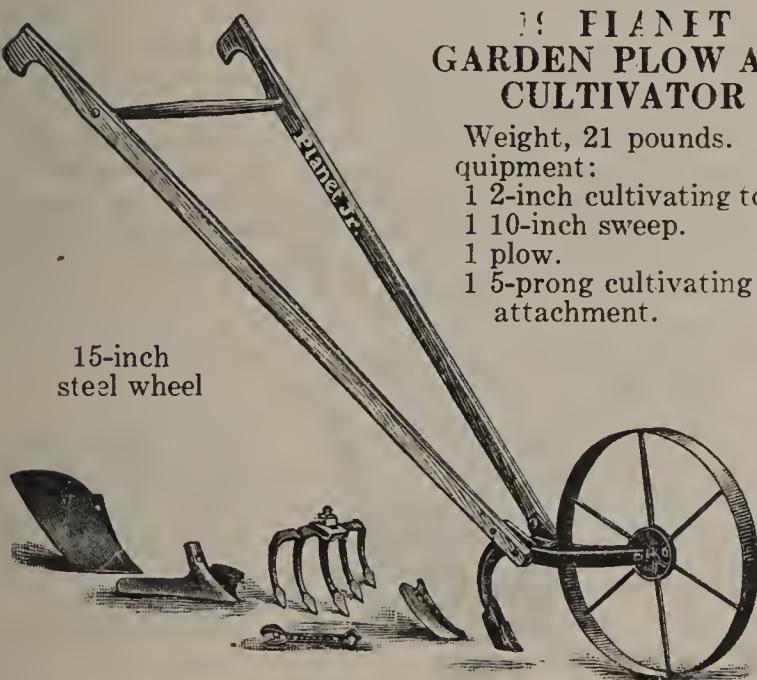
No. 19 PLANET JR. GARDEN PLOW AND CULTIVATOR

Weight, 21 pounds.

Equipment:

- 1 2-inch cultivating tooth.
- 1 10-inch sweep.
- 1 plow.
- 1 5-prong cultivating attachment.

15-inch steel wheel



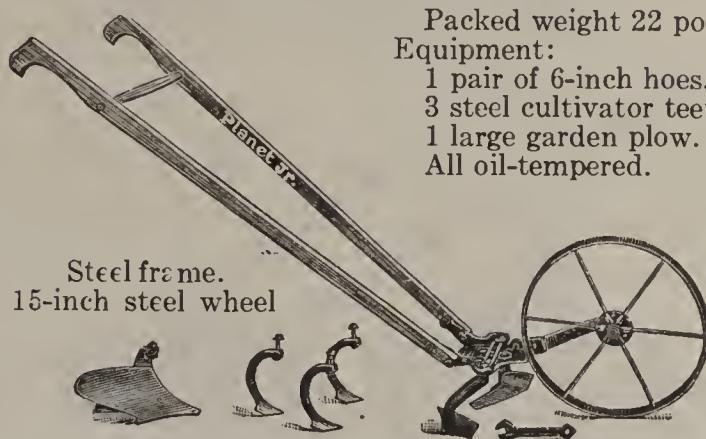
No. 19—This attractive implement is especially designed for the farmer's garden work, though it offers to every one with either field or garden a cheap and effective tool for wheel-hoe operations. The standard is slotted for depth regulation, and an adjustable piece carries any of the attachments that go with the machine. The cultivating tooth does deep work and marks out rows for onion sets, plants, etc. The sweep is fine for level shallow work. The five-prong cultivator attachment is bolted directly to the frame, first removing the S-37 standard. The plow marks out furrows, covers them and plows to or from the crop as wanted; opens furrows for fertilizer, peas, beans, etc. Use the five-prong attachment for deep and shallow cultivation. It will break up the ground and leave a mulch so necessary to preserve the moisture in the soil. The variety, shape and quality of the tools make the implement light-running and effective. It is strong, well made and quickly adjusted. The height of the handles can be changed to suit man or woman, boy or girl. Price \$4.95

No. 17 PLANET JR. SINGLE-WHEEL HOE

Packed weight 22 pounds.

Equipment:

- 1 pair of 6-inch hoes.
- 3 steel cultivator teeth.
- 1 large garden plow.
- All oil-tempered.



No. 17 is identical with No. 16, except in equipment, and all that has been said previously regarding Planet Jr. Wheel Hoes is equally true of No. 17. The three sets of attachments which go with it are all the finest of their kind, and make an outfit sufficient for most garden work. You can do more and better work with it in one day than you can do in several days with the old-fashioned hand hoe. The hoes exchange sides to work to or from the row, and change of wheel regulated the depth. The hoes are constantly useful throughout the season. The cultivating teeth are oil-tempered and work admirably, are changeable for pitch and are useful for marking out rows. Price \$7.75

No. 16—The same as above except in equipment, which includes one pair 6-inch hoes. Three cultivator teeth. One large garden plow. One 7-inch rake. One 4-inch rake. One leaf guard. Price \$8.75.

No. 17½—Same as No. 17—but without the plow. Price \$6.75.

No. 18—Same as the No. 17—but equipment consists of one pair of 6-inch hoes only. Price \$5.75.

No. 119 PLANET JR. GARDEN PLOW AND CULTIVATOR

This new member of the "Planet Jr." family will appeal to all those who prefer a high-wheel tool for their garden work. Where the soil has not been thoroughly and carefully prepared, the high wheel undoubtedly makes an easy-running tool. The wheel is 24 inches in diameter, with a rim 1½ inches wide, insuring easy running in the lightest soil. The equipment is so

complete that it will meet all the needs of the ordinary garden where the adjustments and refinements of the higher-priced wheel hoes are not required.

Price \$.85

No. 119W.—Is the same as the No. 119 except that it has a fine prong forged spring steel cultivator attachment instead of the reversible scuffle blade. This attachment can be used on any other Planet Jr. Wheel Hoe. Price \$4.20.

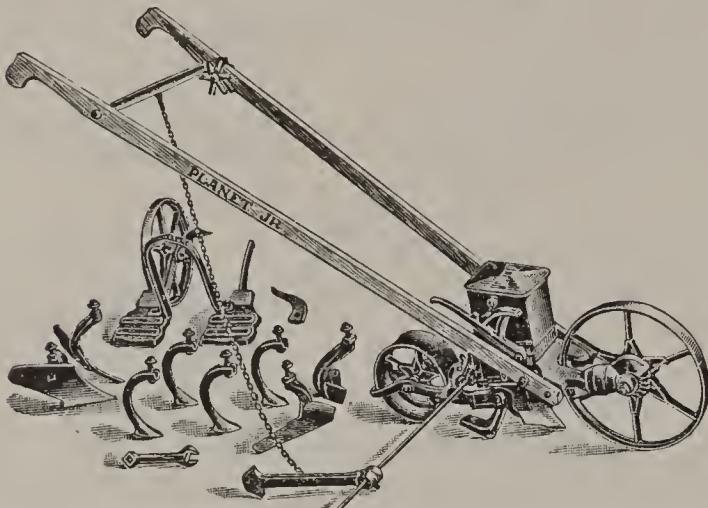
FIRE-FLY GARDEN PLOW

This tool is exceedingly useful to owners of small gardens. It will throw a furrow 4 to 6 inches deep, and deeper by going a second time in each furrow. It makes fine furrows for manure or seeds and covers them, and makes up rows for all kinds of plant setting. In cultivating, plow away, weed the row and plow back again; nothing more thorough than this. After the furrow is thrown away from the crop lightly, leave it a few days before throwing back.

Price \$4.50.

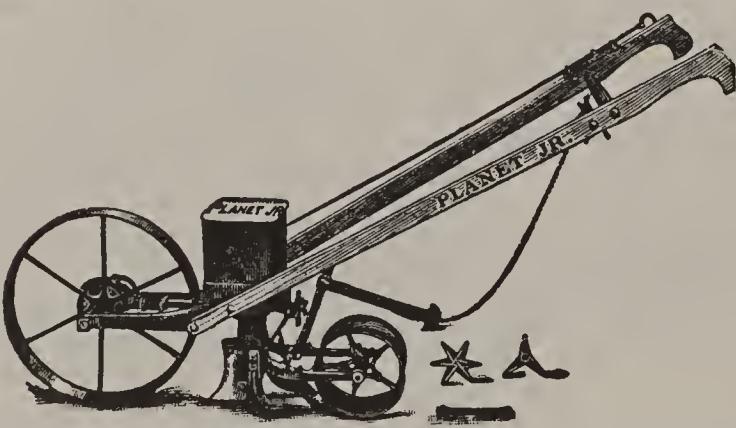


No. 25 PLANET JR. COMBINED HILL AND DRILL SEEDER, DOUBLE-WHEEL HOE, CULTIVATOR AND PLOW

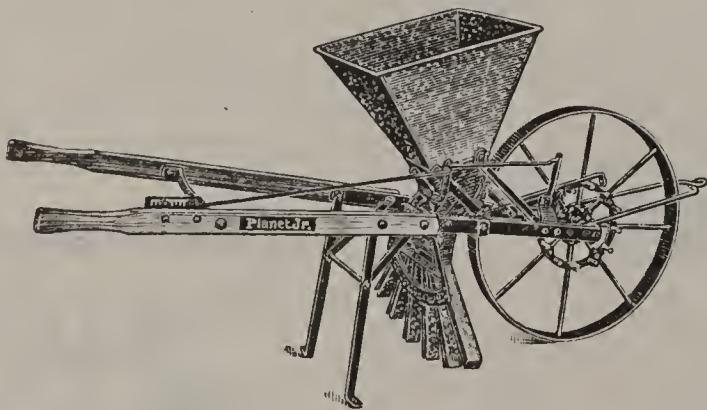


This new combined machine is intended for gardeners who have sufficient acreage in crops for a double-wheel hoe to be used to good advantage and do not want to buy separate machines. It can be used as a drill and is almost identical with the "Planet Jr." No. 4. It is thoroughly substantial and accurate in sowing all kinds of garden seeds in hills or drills. It has 11 1/4-inch wheels, and the hopper holds 2 1/2 quarts. As a wheel hoe it is identical with the "Planet Jr." No. 12 Double-Wheel Hoe, the very best machine on the market. It takes but a moment to change from drill to wheel hoe, and the whole combination is one that we can heartily recommend and guarantee to be satisfactory. Price \$22.50.

PLANET JR. No. 3 HILL AND DRILL SEEDER



This Seeder is the latest and most perfect development of the hand seed drill. It sows evenly in drills and also drops in hills 4, 6, 8, 12 or 24 inches apart. It is thrown out of gear instantly by moving a convenient lever or the flow of seed is stopped by pushing down the feed rod. No time is lost, no seed is wasted; it is quickly set to sow the different kinds of seeds in the exact quantity required. We guarantee this drill to be accurate and to give satisfaction. The accuracy insures a regular stand of plants with the least seed, and the price of the drill is more than made up in the saving of seed. Holds 3 quarts. Price \$18.00



No. 5 PLANET JR. HILL AND DRILL SEEDER



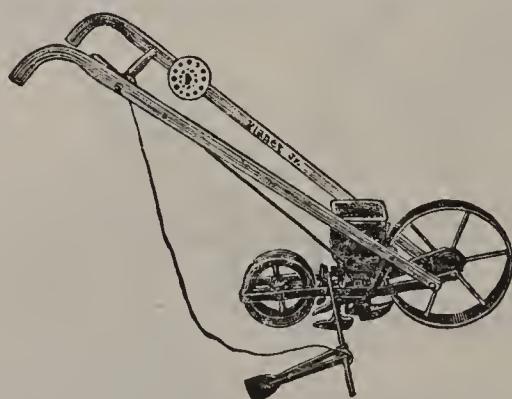
This drill is identical in construction with the No. 3, but is larger. The hopper holds 5 quarts. It works very light and is intended for those having a great deal of planting to do. Price \$91.75

PLANET JR. No. 4 COMBINED SEED DRILL SINGLE-WHEEL HOE, CULTIVATOR AND PLOW

This is the most popular combined tool made. It combines in a single implement a first-class hill-dropping seeder, a single-wheel hoe or weeder, a cultivator and a plow. The hopper holds 2 1/2 quarts of seed, which can be sown in continuous rows or dropped in hills at 4, 6, 8, 12 or 24 inches apart. Capacity of hopper, 2 1/2 quarts. The drill is detached and the tool frame substituted by removing but one bolt. With this one implement the small farmer can do practically all the work in small crops.

Price, complete..... \$18.75
No. 4-D Plain Seeder..... 14.75

No. 300—This is the ideal machine for the farmer and commercial vegetable grower. It will plant any vegetable seed from the smallest up to the bush lima beans. There are three plates with a total of 39 holes, giving ample adjustments for any variety of seed. You can change from one hole to another in five seconds, and from one plate to another in thirty-five. Capacity of hopper 4 quarts. Front wheel 15 inches in diameter, 2 1/2 inch tread. Rear wheel 11 1/4 inches in diameter, 2 1/2-inch tread. Price \$20.00.



No. 300A.—The same as No. 300 except that it has a concave rear wheel instead of the flat faced wheel.

Price \$20.00.

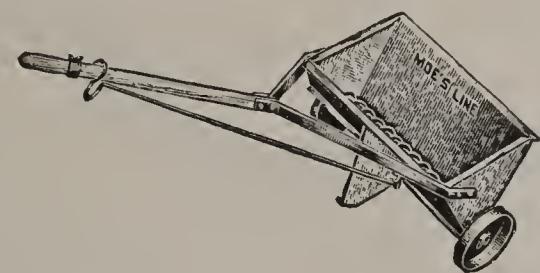
No. 220 PLANET JR. FERTILIZER DISTRIBUTOR

The No. 220 will distribute fertilizer in the middles of three rows 12 to 14 inches apart; it will side-dress one side each of two rows up to 36 inches apart. You can use it in very narrow rows—as close as 9 inches. You can use it in 42 to 48-inch rows by closing off the flow in three spouts and distributing through the other three—either on the right or left hand side. It spreads fertilizer from 4 to 30 inches on the ground. The hopper capacity is one bushel and the weight of the load is placed over the wheel, making it easy to push. Will distribute 100 to 2,000 pounds of commercial fertilizer to the acre. Price \$28.75

MOE'S FERTILIZER DISTRIBUTORS AND GRASS SEEDERS

No. 500 — For uniformly spreading any dry pulverized commercial fertilizer, lime, ashes, bone meal or grass seed. The feed is adjustable at will by means of a convenient rod on the handle and can be shut off entirely when crossing walks and driveways. Works either way, push or pull as preferred. Can also be used for spreading salt, sand or ashes on icy walks. Easy acting spiral agitator. Quick adjustment for a light medium or heavy application. Runs very easily, no hard pushing or tugging, no clogging and spreads uniformly and in quantity desired. Hopper is of galvanized steel. Size at top 12x20 inches and 10 inches deep. Capacity about 2½ pecks of fertilizer. Substantial wood handle and steel disc wheels all attractively painted. Shipping weight 22 pounds.

Price \$6.50



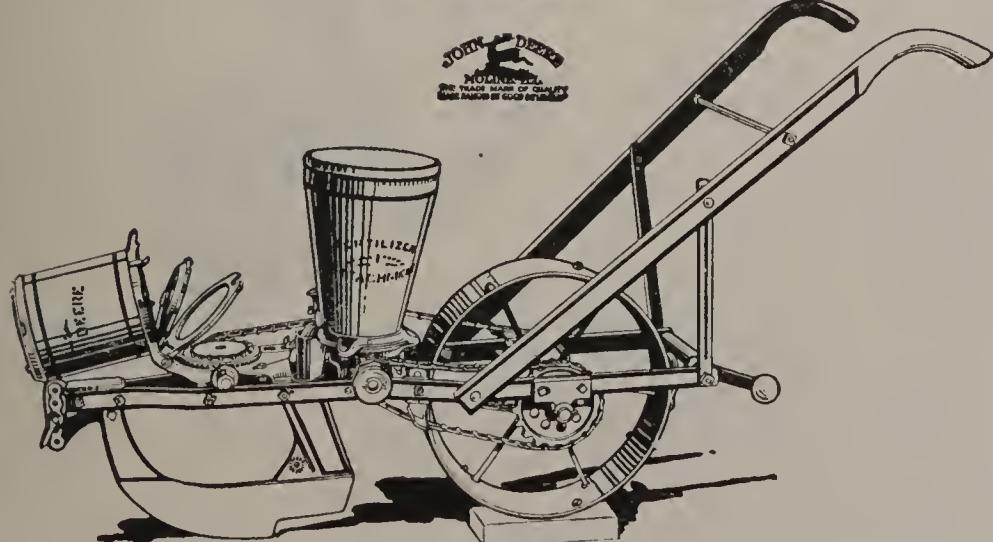
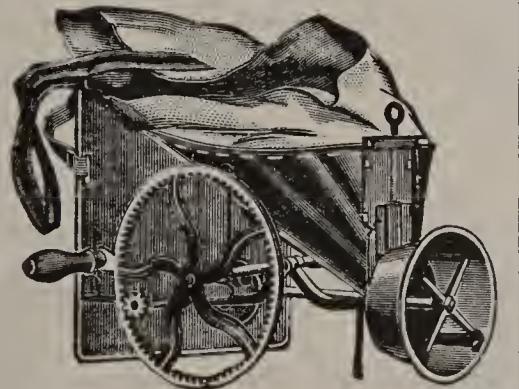
No. 505 JUNIOR. —Moe's Junior Fertilizer Distributor and Seeder has been designed especially for the medium sized lawn and is a highly efficient machine at a low price. Uniform application of all kinds of commercial fertilizer and grass seeds. Makes a beautiful velvety green lawn. Quickly adjusted for a light, medium or heavy application. Heavy galvanized steel hopper. Size 16 x 9½ inches at top and 8 inches deep. Width over all 19 inches. Capacity 25 pounds of fertilizer. Shipping weight 9 pounds.

Price \$3.25

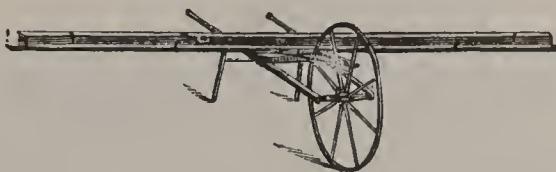
CAHOON'S BROADCAST SEED SOWER

For Sowing Clover, Timothy, Millet, Oats, Wheat, Hemp, Barley, Rye, Rice, Buckwheat, Etc.—Standard Seeder of the World—A Model for Accuracy and Durability—Malleable Iron Frame—Steel Hopper and Gate—Brass Discharger.

The breadth of the cast will be according to the weight of the seed. Wheat and rye, 30 to 36 feet; oats, 21 to 25 feet; barley, 27 to 33 feet; clover, millet, Hungarian seed, 20 to 24 feet; hemp, 27 to 30 feet; timothy, 15 to 18 feet. Price \$5.50.



THOMPSON WHEELBARROW GRASS SEEDERS (FARM TYPE)



Have won first place in the grass seeder field by demonstrating that they are the most accurate and economical for sowing Clover, Timothy, Alfalfa and all other grass seeds broadcast.

They run easily and sow evenly in windy weather. The quantity is subject to control, ranging from 1 to 96 quarts per acre, sowing at the required rate per acre regardless of speed. The strong steel wheel, 32 inches in diameter, with a 1½ x ¼ inch steel tire, operates the simple mechanism, which assures uniform seeding from the full length of the hopper. Sows mixed or separate seeds equally as well and sows only when in gear.

It is substantially constructed and nicely finished. Weight of Seeder complete 50 pounds.

No. 11—Single Hopper Seeder. Capacity 1 to 24 quarts per acre. Sows all small seeds like Clover, Timothy and Alfalfa.

No. 12—Double Hopper Seeder. Capacity 1 to 96 quarts per acre. Sows all small seeds like Clover, Timothy, Alfalfa and also chaffy seeds like Red Top, Orchard Grass and Clean Blue Grass.

Prices:

No. 11—Single Hopper, 14 feet long.....	\$17.00
No. 11—Single Hopper, 16 feet long.....	18.00
No. 12—Double Hopper, 14 feet long.....	19.00

CYCLONE SEED SOWER

A seed sower any farmer can afford. The most accurate, most convenient to operate and most economical machine for sowing Clover, Timothy, Alfalfa and all other farm seeds that can be sown broadcast. It runs easily and will distribute any desired quantity of seed per acre.

Price \$2.50



THE SOWER THAT SCATTERS EVENLY

JOHN DEERE No. 227 ONE-HORSE DRILL

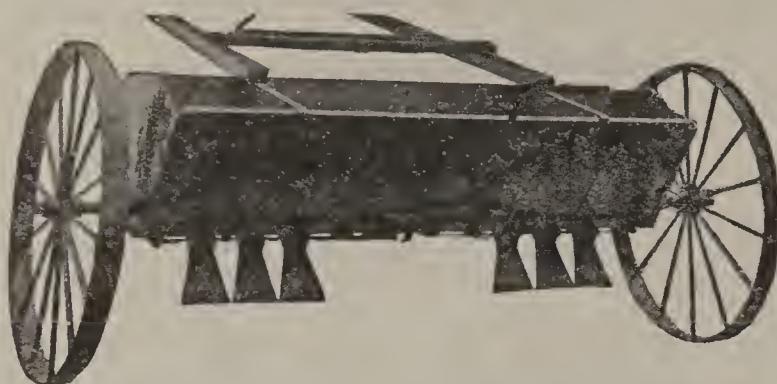
Noted for its simplicity of construction, durability, ease of handling and accuracy—the four features that make an entirely satisfactory planter. It has the accurate John Deere natural-drop seed plate, the same as is used on the popular two row corn planters. Plates can be furnished for planting any kind of corn, beans, peas, sorghum and many other seeds. The hopper is the tip-over style and is made of sheet steel. It is equipped with a water tight cover. The strong steel drive wheel is practically unbreakable. The seeding mechanism is driven by a chain direct from sprocket mounted on the ground wheel axle. A spring eccentric clutch is provided for throwing planter in and out of gear. Disk or hoe marker can be furnished if desired.

SAFETY FERTILIZER ATTACHMENT

The No. 227 Drill can be equipped with the John Deere improved safety fertilizer attachment that distributes the fertilizer in a narrow strip on each side of the row, at the same time the corn is planted. Applied in this way, the fertilizer becomes readily available as plant food, yet none of it comes in contact with the seed, which is protected by a layer of soil.

Price, Plain.....	\$21.50
Price with Fertilizer Attachment	29.50

HAINES FERTILIZER DISTRIBUTOR



The Haines Universal Distributors are made in several sizes to meet the various requirements of the planters and farmers.

It can be used as a broadcaster for lime or fertilizer. It is easy to load and brings the distributor near the ground, only 11 inches for materials to fall, and for that reason the light materials are less liable to be carried away by the wind. Any quantity per acre may be sown by these machines by simply moving one lever to the adjustment required.

No gears of any kind, no chains, no sprocket wheels, no belts and no springs—fewer parts than any other machine. A positive force feed, strong enough to handle the materials being used without caking in the hoppers, and at the same time giving regular discharge of materials.

6 foot.....\$55.00

7 foot.....\$60.00

GENUINE No. 2 HAINES MARKERS



The marker is a perfect covering or listing machine, covering one or more rows as may be required, and is under perfect control of operator by use of lever that may be adjusted while the machine is in motion.

The marker is very quickly changed from marking to covering; it is only necessary to loosen two nuts and move disc along to the required place and adjust. The machine is graduated with the different distances that may be plainly seen by the operator.

2 Row Marker.....	\$40.00
3 Row Marker.....	45.00

VAN BRUNT LIME AND FERTILIZER SOWER

WITH OSCILLATING AGITATORS

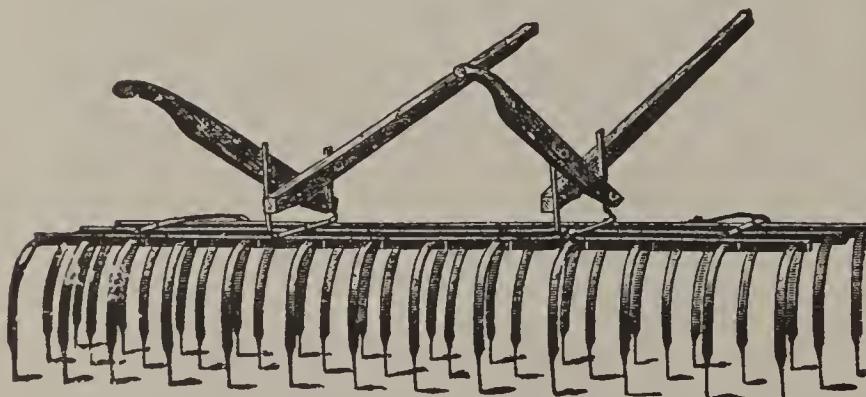
The Van Brunt Lime and Fertilizer Sower is built in the standard size to cover eight feet of ground, with a carrying capacity of ten bushels. For strength, durability and simplicity it is unexcelled.

This sower has 36-inch steel wheels with staggered spokes, heavy, wide rims, removable dust-proof boxings, and compression grease cups with chilled wheel bearings.

Shifter levers on rear of hopper are provided with feed gauge lock, so that when set to sow a certain amount, the feeds may be closed entirely or quantity reduced when desired, and thrown back to the original position, avoiding the necessity of resetting the feed gauge.

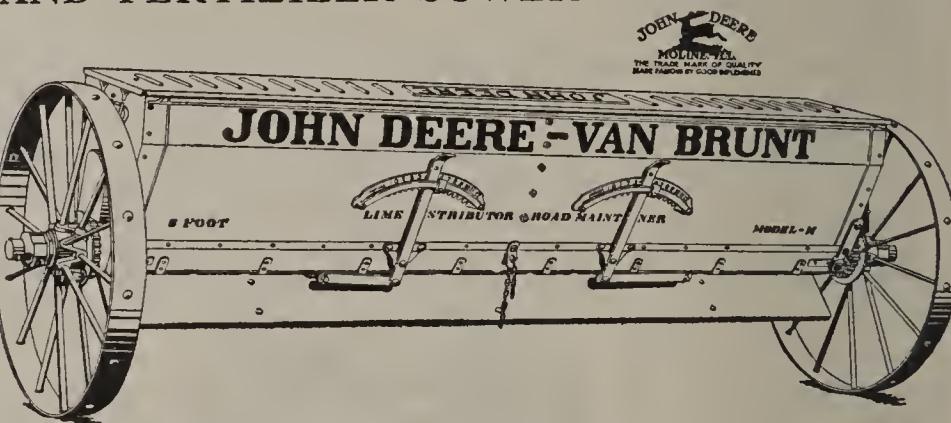
Price, Plain.....	\$86.00
Add for Agitator with Mud Guards.....	14.00

QUADRUPLE WEEDE

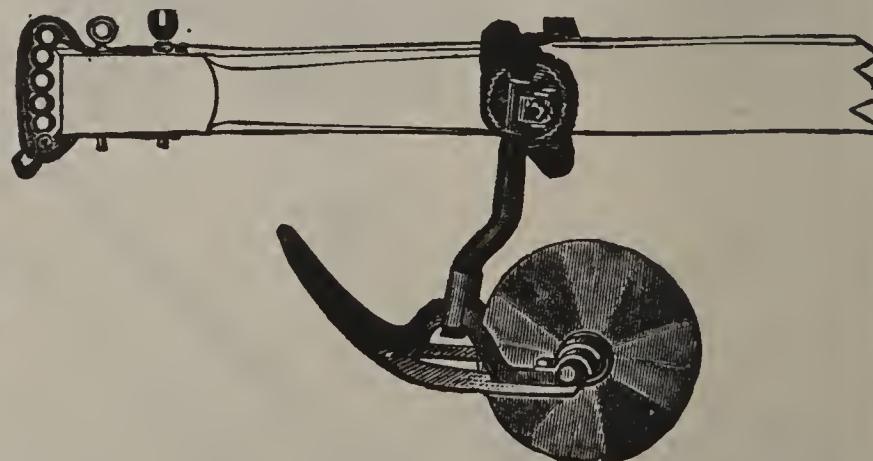


This tool has been adopted and passed upon favorably by many of the most practical farmers.

7½ foot wide—39 teeth.....	\$12.00
11 foot wide—57 teeth.....	20.00
Extra Teeth.....	each .30



“MOON” ROLLING COULTER

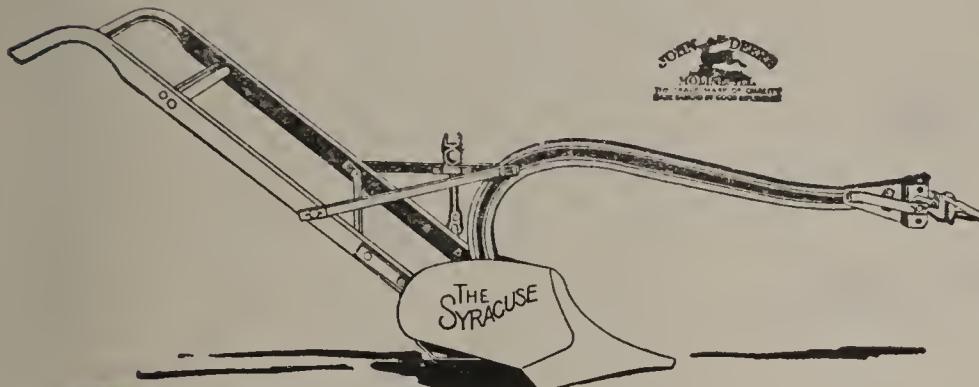


The shoe presses down all weeds and trash and holds same firmly while being cut by the Coulter.

Prices	
No. 1—8-inch disk.....	\$4.75
No. 2—10-inch disk.....	5.50
No. 3—12-inch disk.....	6.25

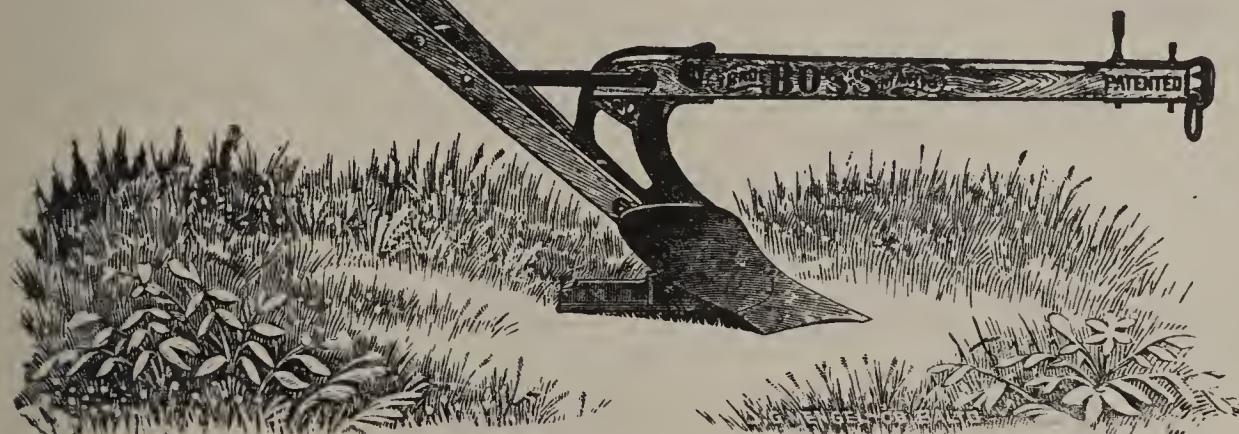
JOHN DEERE - SYRACUSE WALKING PLOWS

John Deere—Syracuse Chilled Plows were first introduced in 1875. Since that time, they have won the favor of farmers wherever chilled plows are used, due to their superior design, mechanical construction, materials and performance.



No.	Plain	With Wheel	With Wheel & Jointer
1361—L.H.	\$20.75	\$22.15	\$26.10
1362—L.H.	18.50	19.90	23.85
1363—L.H.	18.00	19.40	23.35
1441B.—R.H.	24.00	25.40	29.35
1441BC—R.H.	25.25	26.65	30.60
1441BSC—R.H.	26.00	27.40	31.35
1442B—R.H.	21.75	23.15	27.10
1442BC.—R.H.	23.00	24.40	28.35
1442BSC.—R.H.	23.75	25.15	29.10
1459—R.H.	7.15	8.55	
1462—R.H.	18.50	19.90	23.85
1463—R.H.	18.00	19.40	23.35
1464—R.H.	15.75	17.15	21.10
1465—R.H.	14.00	15.40	19.35
1466—R.H.	12.75	14.15	18.10
1467—R.H.	9.50	10.90	

THE ORIGINAL BOSS PLOWS



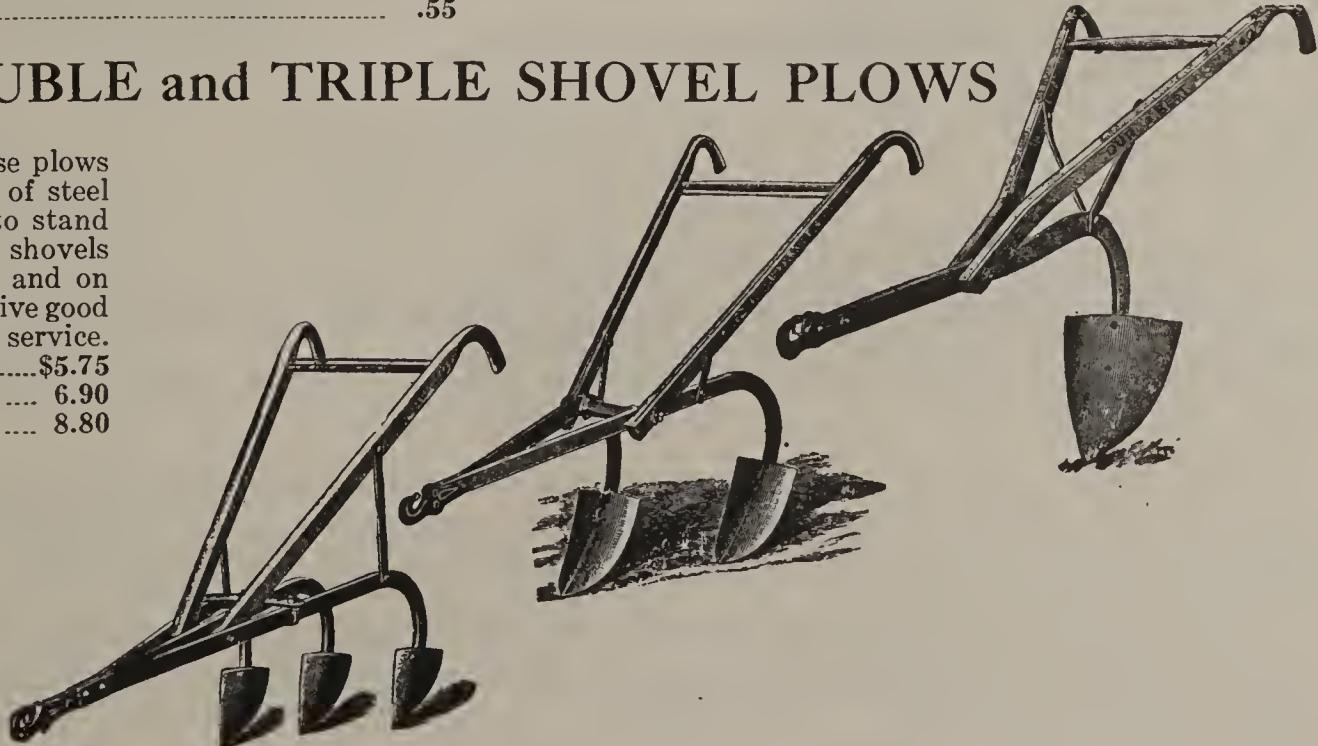
PLOWS	
1-Rig.....	\$6.50
2-Rig.....	7.50
3-Rig.....	8.50
4-Rig.....	9.50

REPAIRS FOR BOSS PLOWS

Cabbage Shares.....	\$.30	Clevice.....	\$.40
No. 1 1/2 and 2 Shares.....	.35	Double Mouldboard and Share.....	3.00
No. 2 1/2 and 3 Shares.....	.40	Double Share.....	1.00
No. 20 Shares.....	.50	Bolts, All Sizes.....	.05
Cabbage Mouldboard.....	.35	Standards.....	2.75
No. 1 1/2 and 2 Mouldboards.....	.70	Handles, Complete.....	1.50
No. 2 1/2 and 3 Mouldboards.....	.80	Handles, loose, each.....	.65
No. 20 Mouldboards.....	1.30	Beams.....	1.00
Landsides.....	.55		

SINGLE, DOUBLE and TRIPLE SHOVEL PLOWS

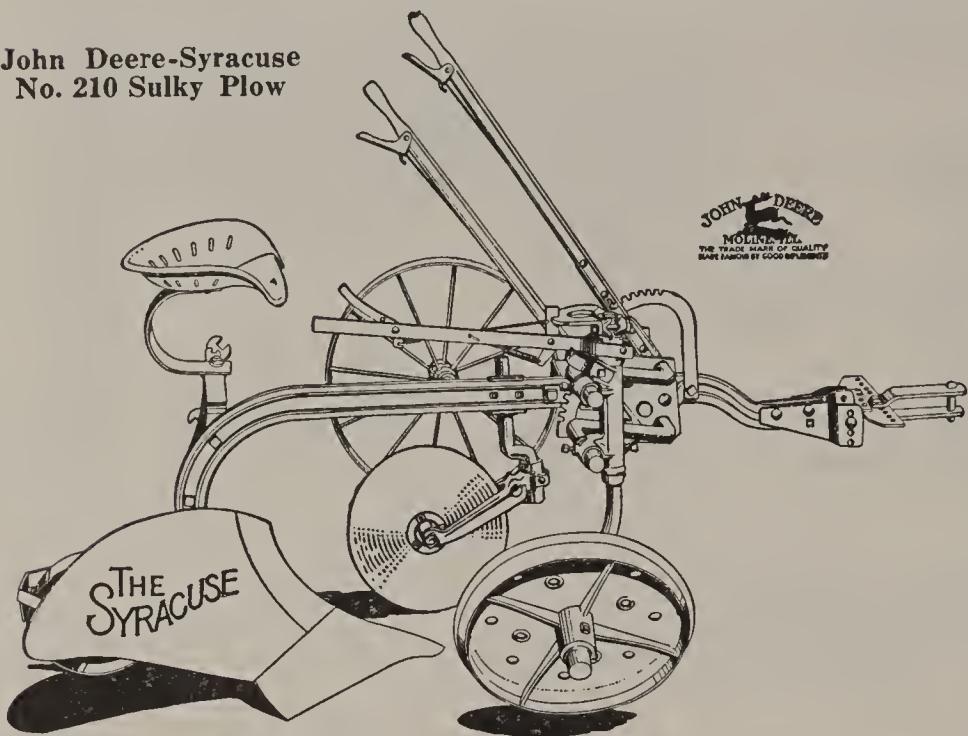
The beams of these plows are of a good grade of steel and heavy enough to stand severe work. The shovels are of good quality, and on the whole, they will give good satisfaction and long service.
 Single Shovel Plow \$5.75
 Double Shovel Plow 6.90
 Triple Shovel Plow 8.80



JOHN DEERE - SYRACUSE No. 210 SULKY PLOW

A LIGHT-DRAFT ALL-WHEEL-CARRIED PLOW FOR EVERY TYPE OF SOIL

John Deere-Syracuse
No. 210 Sulky Plow

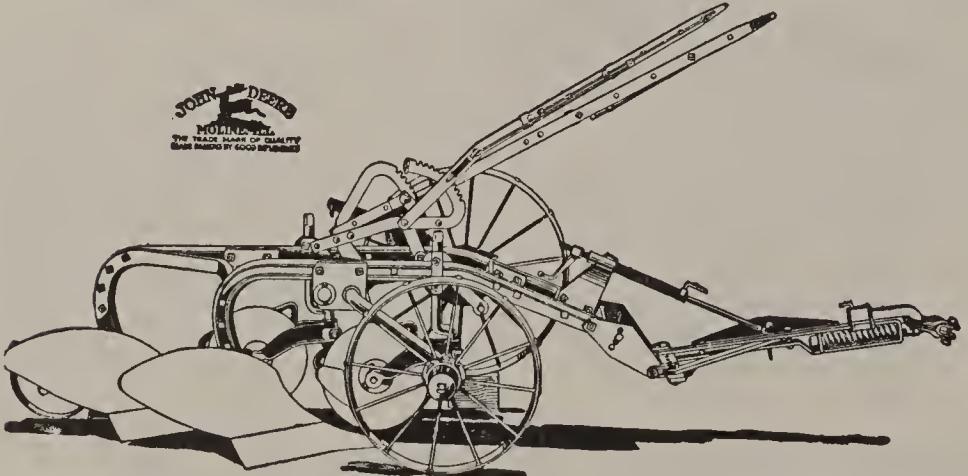


share life and light draft. The outstanding feature that is found only on this plow, that actually governs the plow; the controlling device that automatically keeps the plow cutting furrows at uniform width and depth at all times.

PRICES

No. 1441—Right, Chilled.....	Weight 378 lbs.....	\$70.00
No. 1442—Right, Chilled.....	Weight 350 lbs.....	70.50

JOHN DEERE No. 52-2 BOTTOM TRACTOR PLOW



No. 1441—28-inch Cut.....
No. 1442—24-inch Cut.....

PRICES

No. 1441—28-inch Cut.....	Weight 809 lbs.....	\$112.00
No. 1442—24-inch Cut.....	Weight 785 lbs.....	108.00

Long, conveniently-reached levers make it easy to control depth and leveling accurately.

The power-lift is simple, and positive. It will stand the hardest, roughest work. It will last far longer than any ordinary power lift.

The land wheel, from which the power-lift operates, is solid and straight from tire to box on the inside; it does not pick up dirt or trash, thus it is a natural protection to clutch and driving parts. On a half turn of this wheel, the bottoms lift high and level—no digging into the ground or clogging with trash when turning the ends of the field.

When the bottoms are lowered, they enter the ground point first and penetrate quickly to plowing depth.

FIRST OF ALL—You Want Good Plowing

Good plowing and good farming go hand in hand. You know there's no substitute for good plowing in the preparation of high-producing seed beds.

For nearly a century, John Deere plows have set the standard of good plowing. Thousands upon thousands of farmers have learned to depend upon them for every plowing job. They know their plowing will be done in the way that will result in better seed beds and bigger yields.

The two bottom tractor plow of great strength—is ready for your field—ready for better work in your most difficult moldboard plowing jobs. Test its strength in your own fields on your most difficult plowing job.

SYRACUSE WALKING PLOWS AND PARTS

No.	Plain	With Wheel	With Wheel and Jointer	Chilled Share	Slip Share	Steel Share	LANDSIDE		MOULDBOARD		
							Chilled	Steel	Chilled	Hard Steel	
1441B	\$24.00	\$25.40	\$29.35	\$.77	\$.89	-----	\$1.70	-----	\$5.00	-----	\$2.30
1441BC	25.25	26.65	30.60	.77	.89	-----	1.70	-----	-----	-----	2.30
1441BSC	26.00	27.40	31.35	.77	.89	-----	1.70	-----	-----	-----	2.80
1442B	21.75	23.15	27.10	.64	.76	-----	1.60	\$2.75	-----	-----	2.30
1442BC	23.00	24.40	28.35	.64	.76	-----	1.60	-----	4.60	-----	2.30
1442BSC	23.75	25.15	29.10	.64	.76	-----	1.63	2.75	-----	-----	2.30
1461	20.75	22.15	26.10	.64	.76	5.10	1.09	-----	3.60	\$9.00	2.30
1462	18.50	19.90	23.85	.55	.67	4.75	1.00	-----	3.60	8.50	2.40
1463	18.00	19.40	23.35	.50	.62	4.35	.96	-----	3.10	7.95	2.40
1464	15.75	17.15	21.10	.46	.58	3.00	.82	-----	2.55	6.80	2.00
1465	14.00	15.40	19.35	.36	.48	2.75	.64	-----	1.90	5.80	2.00
1466	12.75	14.15	18.10	.32	.44	-----	.54	-----	1.65	-----	2.00
1467	9.50	10.90	-----	.23	.35	-----	.46	-----	1.40	-----	2.00
601	20.75	22.25	26.65	.64	.76	-----	1.09	-----	3.85	-----	2.55
602	18.50	20.00	24.40	.55	.67	-----	1.00	-----	3.85	-----	2.55
603	17.00	18.50	22.90	.50	.62	-----	1.05	-----	3.10	-----	2.55

JOHN DEERE WALKING PLOWS—RED JACKET—B SERIES AND PARTS

No.	Plain	With Wheel	With Wheel and Jointer	Share Crucible	Share Crucible Qd.	Landside Steel	Mould-Board Hard	Heel for Landsides	Cast Shares as Extras	Handles Wood	Handles Steel
B28	\$17.75	\$19.50	\$23.25	\$1.55	-----	7684-1.75	B108-\$4.50	V112-\$.45	C36 -\$.70	216-\$3.75	101-\$4.25
B29	19.00	20.50	24.50	1.70	-----	7721-1.75	B109- 5.25	V112- .45	C37 - .70	216- 3.75	101- 4.25
B110	18.75	20.25	24.25	-----	\$1.95	7723-1.75	B110- 6.25	V112- .45	C278- 1.05	216- 3.75	101- 4.25
B112	-----	-----	-----	-----	2.40	7731-2.00	B112- 7.25	V112- .45	C295- 1.20	216- 3.75	101- 4.25

JOHN DEERE TURF AND STUBBLE PLOWS AND PARTS

No.	Plain	With Wheel	With Wheel and Jointer	Share Crucible	Share Cast	Landside Bar	Landside Plate Hard	Landside Cast	Shoe for Landside	Mould-Board Hard	Handle Set Wood
MP10	\$22.50	\$24.00	\$28.00	141-\$2.05	.....	7598-\$.75	7597-\$2.75	.....	V216-\$1.10	MP11D-\$7.25	212-\$4.75
MP12	23.00	24.50	28.50	125- 2.40	.....	7598- .75	7597- 2.75	.....	V216- 1.10	MP11D- 7.25	212- 4.75
MP12F	21.50	23.00	27.00	.....	MC125 \$1.15	.....	.....	V223-\$2.00	.....	MP11D- 7.25	212- 4.75
MP14	25.50	27.00	31.00	127- 2.65	.....	7600- .75	7599- 3.00	.....	V218- 1.20	MP15D- 8.75	214- 4.75

OLIVER CHILLED PLOW PARTS

No.	Share Plain	Share Slip	Land- side	Mould- Board	Set Handles	
					S.B.	W.B.
A	\$.20	\$.32	\$.50	\$1.40	\$1.90	\$2.05
A.C.	.25	.37	.50	1.40	1.90	2.05
B.	.30	-----	.65	1.70	1.90	2.05
BCN.	.35	-----	.65	1.70	1.90	-----
10-N	.40	.55	.70	1.95	1.90	2.05
13-N	.50	.65	.90	2.65	2.45	2.25
19-N	.55	.68	1.05	3.25	2.45	2.85
20-N	.60	.72	1.10	3.40	2.45	2.85
40-N	.68	.82	1.15	3.80	2.45	2.85
E	.68	.82	1.15	3.80	2.45	2.85
40XX	.85	-----	-----	-----	-----	-----
83	.85	-----	-----	4.45	-----	-----
84	.85	-----	-----	4.90	-----	-----

Wood Beams for A. B. 10, 13	\$3.75
Wood Beams for 19, 20, E, 40.	4.10
Wheels Complete for—Straight Standard	1.90
Wheels Complete for—Brace Standard	2.15
Wood Beam Jointers Complete Two-Horse	4.35
Steel Beam Jointers Complete Two-horse	4.95
Jointer Points	.22
Jointer Moulds	.40

SOUTH BEND PLOW PARTS

No.	Share Plain	Share Slip	Land- Side	Mould- Board
B1	\$.30	-----	\$.65	\$ 1.70
B1X	.35	-----	.65	1.70
2	.35	-----	.70	1.95
2X	.40	-----	.70	1.95
2½X	.50	-----	.90	2.65
2½F	.45	-----	.90	2.85
3	.50	-----	1.05	3.40
3X	.55	-----	1.05	3.40
3F	.50	-----	1.05	3.45
R4X	.60	-----	1.10	3.45
10	.62	-----	1.15	3.60
10X	.67	-----	1.15	3.60

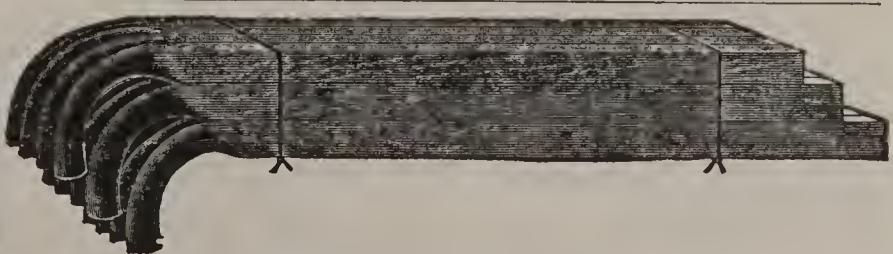
CHATTANOOGA PLOW PARTS

No.	Share Plain	Land- side	Mould- Board
61	\$.20	\$.50	\$1.40
62	.20	.50	1.40
63	.42	.78	2.10
64	.50	.95	2.75
65	.60	1.10	3.15
66	.65	1.10	3.30
70	.20	.50	1.35
71	.25	.50	1.40
72	.30	.50	1.50

CP4166 Slip Noses.....	\$.15
Chattanooga Jointer	
Points.....	.25
Chattanooga Jointer	
Moulds.....	.60
Chattanooga Handles	
Per Pair.....	

INTERNATIONAL PLOW PARTS

No.	Shares	No.	Land-side
6002-R.H.	\$.90	6021-R.H.	\$1.40
6007-R.H.	.85	6022-L.H.	1.40
6027-L.H.	.80	6001M-R.H.	.95
6028-L.H.	.85	6001-R.H.	.45
No.	Mould-board	No.	Mould board
CP6008R.H.	\$5.15	CP6103L.H.	\$5.15
CP6009R.H.	5.40	CP6104L.H.	5.40



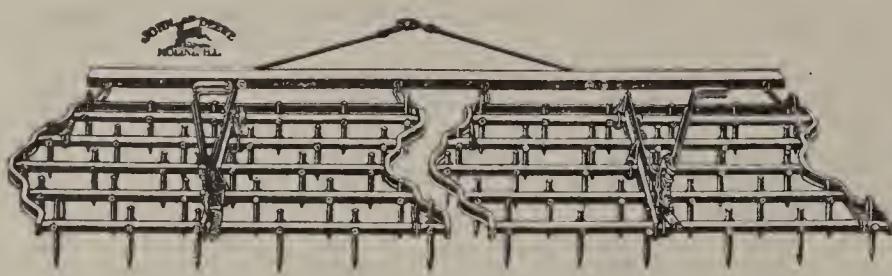
PLOW HANDLES NOT FINISHED

1½x2 in.	ins., 5 ft. long, per pair	\$.60
1¼x2¼ in.	ins., 5 ft. long, per pair	.65
1¼x2¼ in.	ins., 6 ft. long, per pair	.75

SHOVEL PLOW STEELS

5½x8½ in.	.39	7x9 in.	.49	11x13 in.	1.15
6x8 in.	.39	8x10 in.	.64	12x14 in.	1.28
6x11 in.	.52	9x11 in.	.77	14x16 in.	1.53

JOHN DEERE SPIKE-TOOTH HARROWS



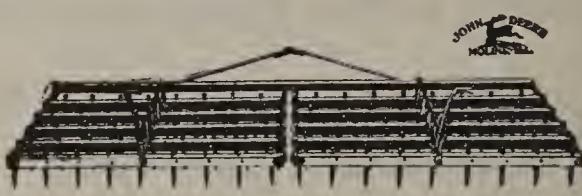
The John Deere Spike Tooth Harrows are designed and built to give the utmost in value—to do good work not only when new, but for many years. Built in sections with 25, 30 and 35 teeth to the section. $5/8 \times 7/8$ teeth.

50-Tooth, $5/8 \times 7/8$, Spikes Harrow, cut	\$21.50
60-Tooth, $5/8 \times 7/8$, Spikes Harrow, cut	24.50
75-Tooth, $5/8 \times 7/8$, Spikes Harrow, cut	35.50
90-Tooth, $5/8 \times 7/8$, Spikes Harrow, cut	38.50
12 ft. 9 in.	
7 ft. 1 in.	
8 ft. 6 in.	
10 ft. 7 1/2 in.	

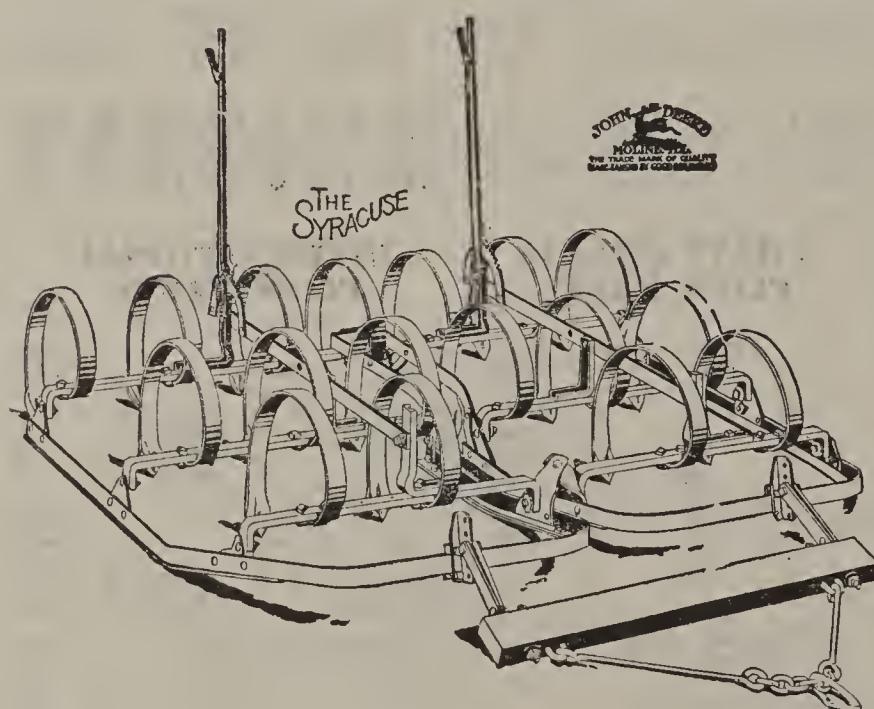
WOOD-BAR SQUARE END HARROW

When you buy a wood-bar harrow, you want it to last a long time. The longer it lasts, the less it costs and the more it pays. Be sure the harrow you buy has the best quality wood—its life is strictly dependent on that quality.

Two Sections—80 teeth—10 feet.....\$36.00



SYRACUSE LEVER SPRING TOOTH HARROW



The frame bars of angle steel, thoroughly protected by steel shoes, which double the life of the harrow. Inside frame bars raised at the end, giving free outlet to trash. Frame with small opening in front, absolutely preventing loading at this point, which is so common with other makes. The tooth bars are of channel steel journaled in malleable brackets above the frame which gives the teeth high support and great range or adjustment for depth of cultivation and clearance. Spring teeth of high carbon steel, without bolt holes, and held by malleable holders, allowing for separate adjustment when worn. By use of the levers the teeth can be readily set deep or shallow, or can be thrown out of the ground to clear off trash and for dragging harrow from one place to another. Central and direct draft without side motion; adjustable hitch, so that the teeth at the front and rear can be regulated to work at the same depth. No spring-tooth harrow made is giving such universal satisfaction.

Prices:

15-Tooth.....	\$26.50
17-Tooth.....	28.00
23-Tooth.....	40.00
25-Tooth.....	41.50

WOOD PLOW DOUBLE AND SINGLE TREES

These Trees are made of selected stock, very strong and durable, and are heavily ironed. The cut shows style of Double Tree; the Single Trees have clips in the center and hooks at the ends.

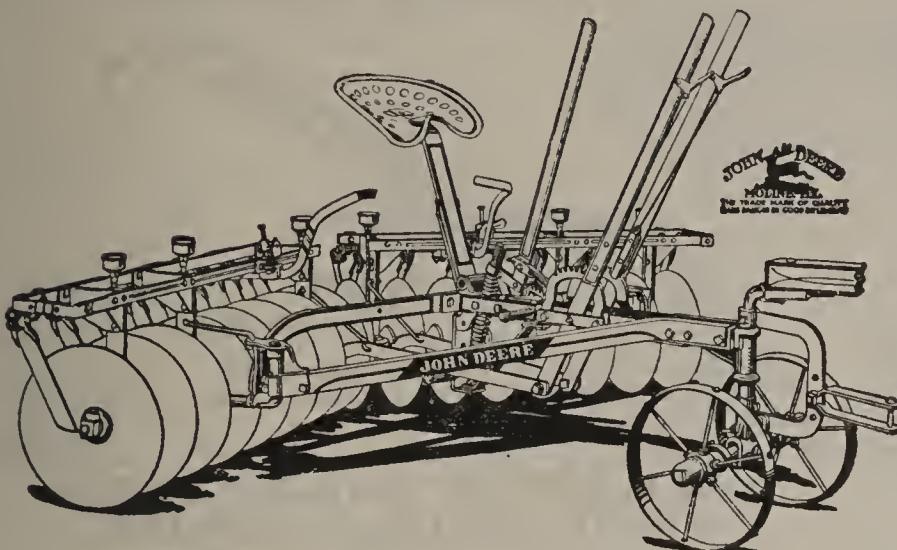
Per set, 36-inch Double Tree and 30-inch Single Tree \$2.75
 Per set, 40-inch Double and 32-inch Single Trees..... 3.25
 Double Tree only, 36-inch, \$1.10; 40-inch..... 1.35
 Single Tree only, 28-inch, 65c 30-inch, 70c 32-inch..... 75



Heavy Lap Links for connecting Double and Single Trees, each.....	.20
Heavy Single Tree Clips, per set .....	.45
Heavy Double Tree Clips, per set .....	.75
Wood Neck Yokes	
Ironed complete, each.....	\$1.50
Extra-Heavy Plow Triple Trees	
Each	\$3.75



JOHN DEERE MODEL B DISK HARROW



If every field were as smooth as a board floor, flexibility would be of no advantage in a disk harrow. But the truth is there is no field condition in which a flexible harrow will not do better work than a rigid one. A disk harrow must be flexible to do the best work.

Independent action of the gangs is largely responsible for the flexibility of the Model B. This construction is of great value because it allows one part of the harrow to pass over an obstruction in the field without interfering with the rest of the machine. A rigid harrow, under the same conditions, is likely to leave some of the land uncultivated.

Prices on Model B Disk Harrows

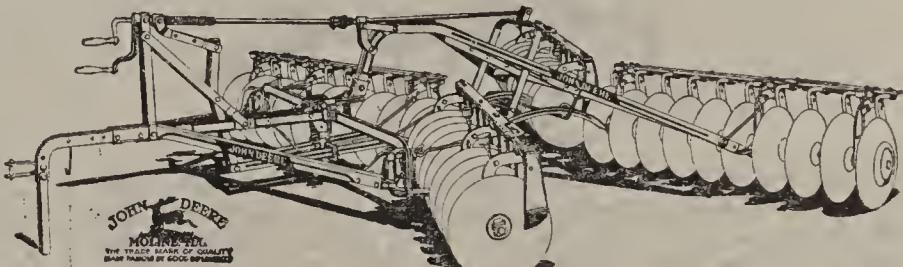
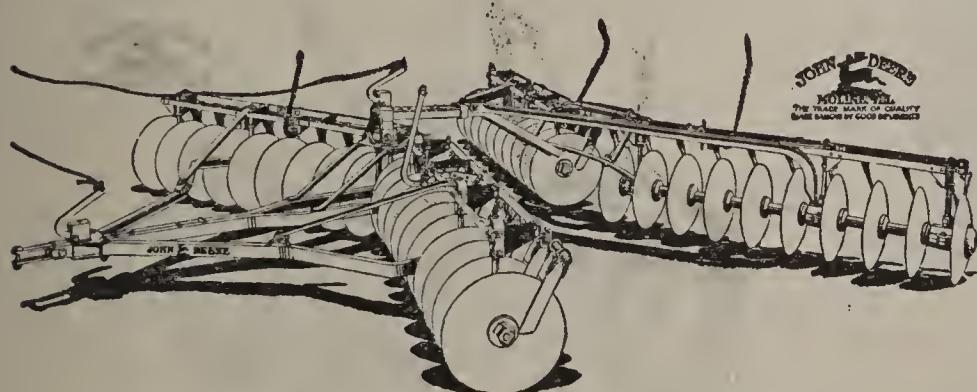
No. BF416—8 16" Discs, cuts 4 ft. 2-H.E. and Pole	\$51.50
No. BF418—8 18" Discs, cuts 4 ft. 2-H.E. and Pole	54.00
No. BF516—10 16" Discs, cuts 5 ft. 2-H.E. and Pole	55.00
No. BF518—10 18" Discs, cuts 5 ft. 2-H.E. and Pole	59.00
No. 17—Forecarriage	11.00

JOHN DEERE MODEL L. C. TRACTOR DISK HARROW
STRONGER AND BETTER THAN EVER

All of the superior points of construction which have contributed to the remarkable success and efficiency of the Model L have been retained—the convenient angling cranks, automatic yielding lock coupling, aligning device, and the flexibility of the harrow itself—all of which make good work certain under varying field conditions.

Prices on Model L Tractor Disk Harrows

No. LC616 24 16" Discs, cuts 6 feet.....	\$121.00
No. LC618 24 18" Discs, cuts 6 feet.....	131.00
No. LC716 28 16" Discs, cuts 7 feet.....	131.50
No. LC718 28 18" Discs, cuts 7 feet.....	140.00

JOHN DEERE MODEL D. A.—AUTOMATIC TRACTOR CONTROL
DISK HARROW

Front and rear gangs can be angled or straightened independently of each other. A pull on the trip rope enables the tractor operator to change the angle of either section instantly to just the proper degree for best disking results.

PRICES

Model	
No. DA-618—6-foot Cut—24-18 in Discs.	\$138.00
No. DA-718—7-foot Cut—28-18 in Discs.	152.00
No. DA-818—8-foot Cut—32-18 in. Discs.	162.50

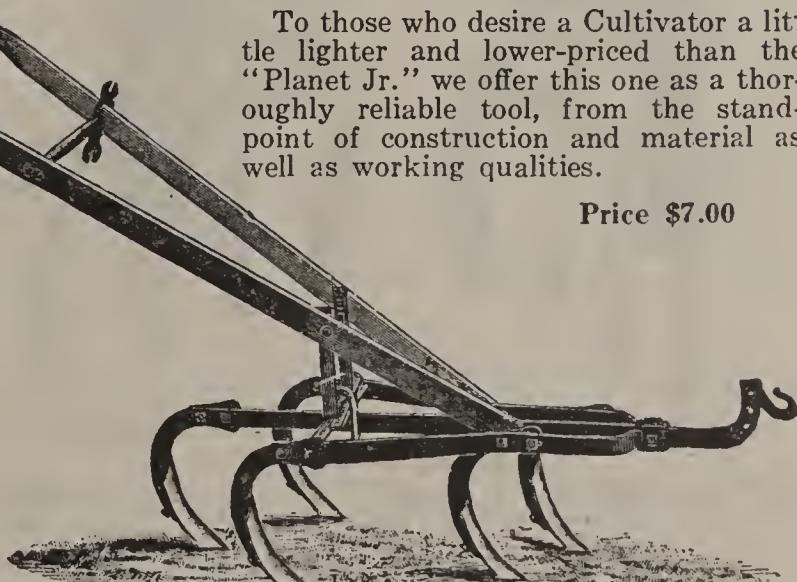
BENT FRAME CULTIVATOR

To those who desire a Cultivator a little lighter and lower-priced than the "Planet Jr." we offer this one as a thoroughly reliable tool, from the standpoint of construction and material as well as working qualities.

Price \$7.00

14-TOOTH COMBINED
HARROW AND
CULTIVATOR

This is a very useful tool, which can be made to do a variety of work. The teeth are set in different positions. Desirable for first cultivation. Price, plain, \$8.00 with lever, \$8.75.



PLANET JR. CULTIVATORS AND HORSE HOES

No. 100 PLAIN CULTIVATOR



No. 100 Cultivator. This very popular tool is strong, plain, simple, business-like and does its work to perfection.

No. 100, with wheel.....	\$8.50
No. 100-D, no wheel.....	7.25
No. 101, with wheel.....	10.00
No. 101-D, no wheel.....	8.75

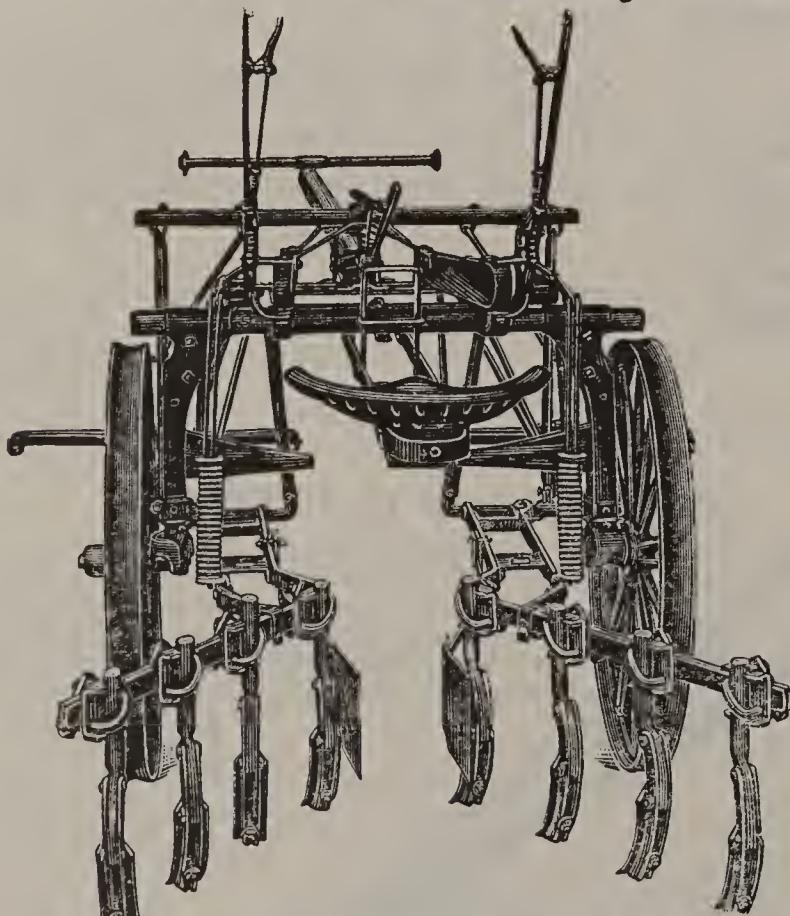
No. 9 PLAIN CULTIVATOR



The No. 9 is well built and of the right design. The especially hardened beveled steel teeth keep sharp and give 50% more service. The No. 9 is light, yet strong, with steel wheel, hollow steel standards, and steel draft hook.

No. 9, with wheel.....	\$12.00
No. 9-D, no wheel.....	10.50

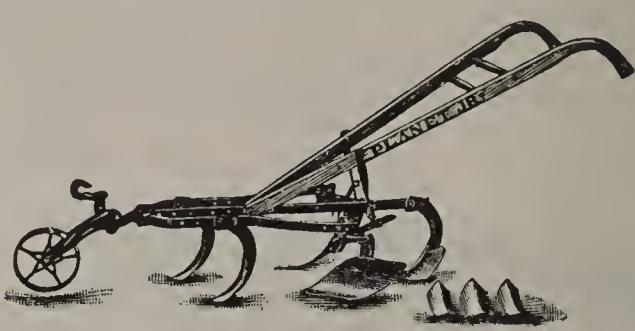
No. 76D Planet Jr. Pivot Wheel Riding Cultivator



Strong though light; Not Complicated;
Easily Handled

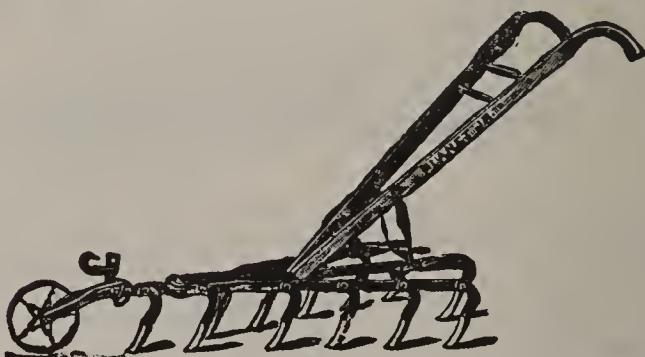
No. 76-D, 8 Shovel Pin Brake.....	\$69.00
No. 76-G, 8 Shovel Spring Trip.....	77.00

No. 4 PLANET JR. HORSE HOE



This tool is low in price, strong and simple; provided with patent handle braces; firm, simple, strong, convenient.

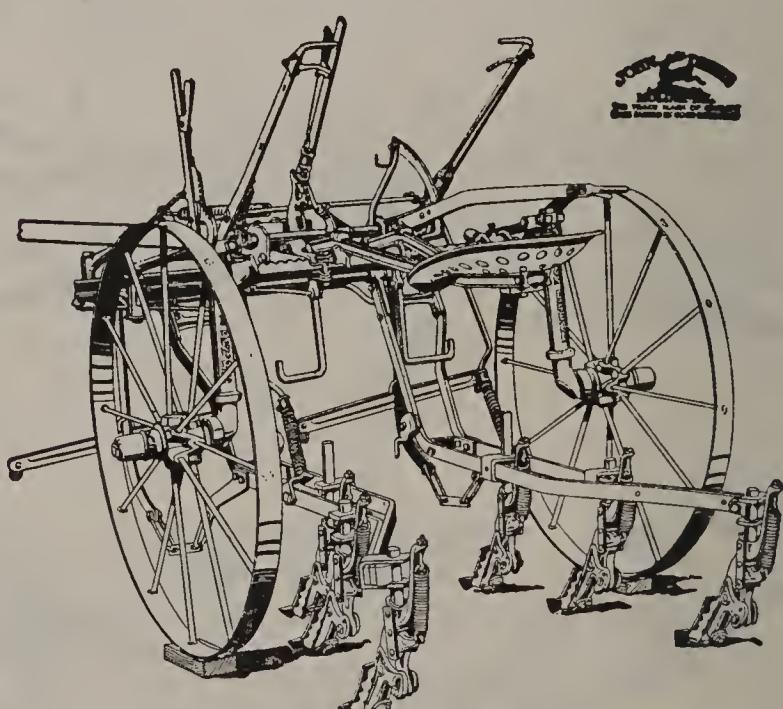
No. 4, with wheel.....	\$11.50
No. 4-D, no wheel.....	10.00

No. 90 PLANET JR. 12-TOOTH HARROW
CULTIVATOR AND PULVERIZER

This tool has rapidly grown in favor among strawberry growers, market gardeners, truckers and farmers.

No. 90 Complete.....	\$16.50
No. 90 B. Less Pulverizer.....	13.50
No. 90 D. Plain.....	10.75
No. 91 With Wheel.....	12.50
No. 92 D. Plain.....	9.50

JOHN DEERE "K. L." CULTIVATOR



This picture Shows the John Deere KL equipped with
No. 179. six-shovel, spring-trip aligned rigs.

Space Rigs with Lever—By means of the spread lever, you space the rigs for distance of cultivation from the row. The rigs spread equally at front and back.

Prices:

KL 179—6 Shovel Spring Trip Cultivator.....	\$69.00
KL 200—8 Shovel Spring Trip Cultivator.....	73.50
KL 178—6 Shovel Pin Brake Cultivator.....	63.50
KL 199—8 Shovel Pin Brake Cultivator.....	65.75

SEND FOR SPECIAL CATALOGUE

GENUINE PLANET JR. EXTRAS

TO DETERMINE THE QUALITY
OF A CULTIVATING STEELLook on the Back
If it reads

	Price	No.
1 x8-inch Steels.....	\$ 17	4064
1 1/4x8-inch Steels.....	.18	1156
1 3/4x8-inch Steels.....	.19	2367
2 1/4x8-inch Steels.....	.20	2368
3 x8-inch Steels.....	.22	2369
4 x8-inch Steels.....	.28	2370
10-inch Steels fit all Planet Jr. Two-Horse Cultivators, excepting No. 72.		
1 1/4x10-inch Steels.....	.21	1888
1 3/4x10-inch Steels.....	.22	1249
2 1/4x10-inch Steels.....	.23	1199
3 x10-inch Steels.....	.27	1200
4 x10-inch Steels.....	.33	1201
Shovel Steels fit all Planet Jr. One and Two-Horse Cultivators.		
7-inch Shovel Steel	\$.40	2539
8-inch Shovel Steel .....	.45	2540
HILLERS AND PLOWS		
6-inch Hillers, pair.....	\$1 25	1167-8
6-inch Hillers with connecting pieces.....	\$2 10	
7-inch Plows, pair	\$1.50	495-6
7-inch Plows with connecting pieces.....	\$2.35	



Regular Sweeps fit all Planet Jr. One and Two-Horse Cultivators.

	Price	No.
6-inch Sweep.....	\$.35	1614
8-inch Sweep.....	.40	1169
10-inch Sweep.....	.45	1170
12-inch Sweep.....	.55	1171
15-inch Sweep.....	.70	1172
18-inch Sweep.....	.90	3148
24-inch Sweep.....	1.75	3491

	Per Pair	
6-inch 1-Sided Sweep ..	.75	4903-4
8-inch 1-Sided Sweeps..	.85	3583-4
9 1/2-inch 1-Sided Sweep	.95	3585-6
11-inch 1-Sided Sweeps	1.05	3587-8

Irrigation Steels and Turning Shovels fit all Planet Jr. Cultivators.

	Irrigation Steel.....	2248
5-inch Turning Shovels	.75	3822-3
6-inch Turning Shovels	.85	3580-1
7-inch Turning Shovels	1.10	3824-5

	Per Pair	
5-inch Imp. Sweep.....	.30	2731
5-in. Imp. Sweep.....	.40	1494
8-in. Imp. Sweep.....	.50	1495
10-in. Imp. Sweep.....	.60	1496
12-in. Imp. Sweep.....	.80	1497
15-in. Imp. Sweep.....	1.00	1498
18-in. Imp. Sweep.....	1.25	1499
24-in. Imp. Sweep & bolt	2.25	3582

You can depend upon it being the Standard of Quality and Design and an assurance of long and satisfactory service.

Hoe Steels fit Planet Jr. Horse Hoe Side Standards.

	Price	No.
6-in. Hoe Steel & Bolt	\$1.25	1163-4
10-in. Hoe Steel & Bolt	1.50	1165-6

Beet Hoe Steels fit Planet Jr. Two and Four-Row Beet Cultivators and Twelve-Tooth Harrows.

	Price	No.
6-in. Beet Hoe Steels....	\$1.25	3426-7
7-in. Beet Hoe Steels....	1.25	2188-9

Improved Flat Sweeps fit all Planet Jr. One and Two-Horse Cultivators Standards, excepting Horse Hoe Side Standards.

	Price	No.
3-in. Imp. Sweep.....	.30	2731
5-in. Imp. Sweep.....	.40	1494
8-in. Imp. Sweep.....	.50	1495
10-in. Imp. Sweep.....	.60	1496
12-in. Imp. Sweep.....	.80	1497
15-in. Imp. Sweep.....	1.00	1498
18-in. Imp. Sweep.....	1.25	1499
24-in. Imp. Sweep & bolt	2.25	3582

WATER BALLAST LAWN ROLLER



Can be filled with water to any desired weight. It can thus be regulated to suit soft turf, firm lawns or driveway, tennis court, etc. It can be emptied for storing away, making it light and easy to handle. The drum is high carbon steel with all seams electric welded. Edges are rounded back to prevent cutting of lawns, courts, etc.

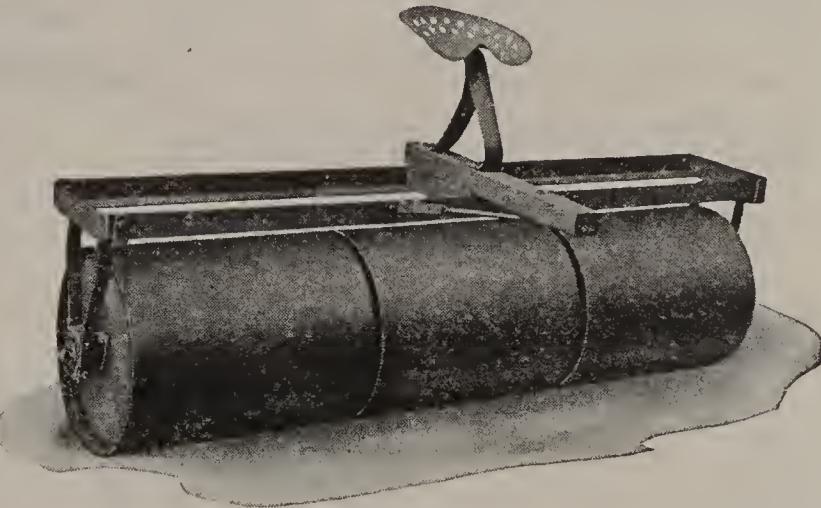
With Roller Bearing

No.	Dia.	Length	Weight			Price
			in.	in.	Empty	
601	14	24	70	175	400	\$10.00
602	18	24	85	265	475	11.50
603	24	24	110	420	630	15.00

With Plain Bearing

605	14	24			\$ 9.00
606	18	24			10.25
607	14	15			8.00
608	24	24			13.50
609	24	32			16.00

CHAMPION STEEL FIELD ROLLERS



No. 106 1/2

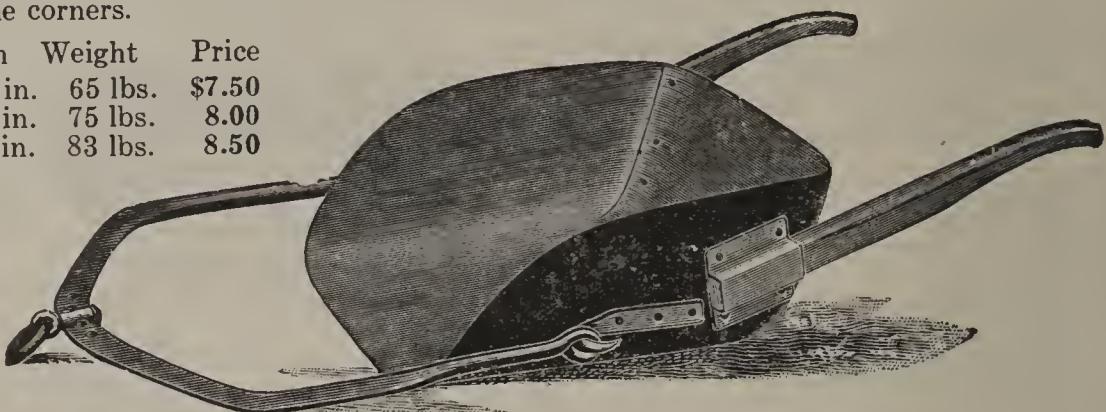
This roller has an angle iron steel frame, which makes it an all steel roller, except the tongue, single trees and neck yoke, which are wood. We call particular attention to the patent pressed steel head, which keeps from clogging in the shells as in an open head roller; also to the removable chilled bushing, which is bolted fast to the head, and which is a valuable feature, as they can readily be replaced by any one at a trifling expense and saves the trouble and cost of sending the roller to the machine shop when the bearings are worn out. It has also, heavy iron braces from the pole to frame, making it very rigid and prevents breaking the pole. Best quality workmanship throughout. Can be furnished in one and two horse sizes.

No. 118—One-Horse Roller.	Width 48 inches.	Diameter 24 inches.	2 sections, steel drums.....	Price \$37.50
No. 105 1/2—Two-Horse Roller.	Width 96 inches.	Diameter 24 inches.	2 sections. Steel drums.....	Price \$40.00
No. 106 1/2—Two-Horse Roller.	Width 96 inches.	Diameter 24 inches.	3 sections. Steel drums.....	Price \$42.50

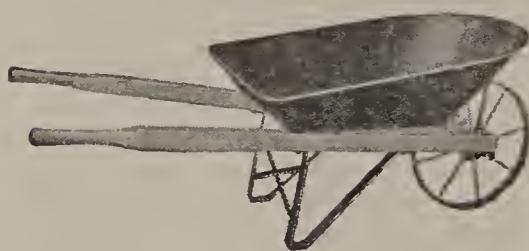
Made of heavy steel plates and are cut from a single sheet pressed cold, lapped and riveted at the corners.

No.	Capacity	Length	Width	Depth	Weight	Price
3	3 cu. ft.	29 in.	27½ in.	18½ in.	65 lbs.	\$7.50
2	5 cu. ft.	31 in.	28 in.	10½ in.	75 lbs.	8.00
1	7 cu. ft.	32½ in.	31 in.	11½ in.	83 lbs.	8.50

DRAG SCRAPERS



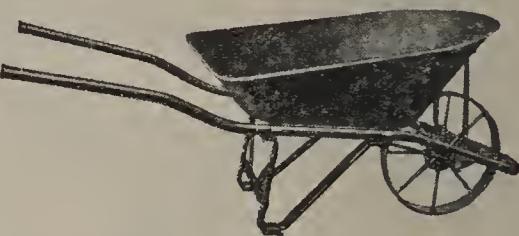
STEEL TRAY, WOOD FRAME BARROWS



Pressed trays with reinforced edges. Capacity 3 cubic feet. Handles are made of hard wood smoothly finished on all sides. Price \$4.50.

CONTRACTORS BARROWS

All steel trays pressed from heavy gauge sheet steel with wired edges. Tubular frames.
No. S-4 capacity 4½ cubic feet heaped \$9.00
No. T-8 capacity 6 cubic feet heaped \$12.00



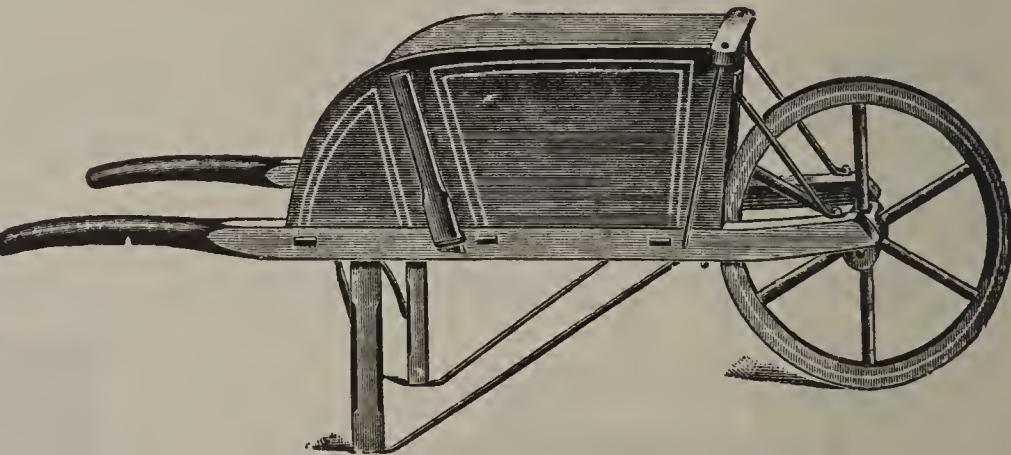
ARDEN AND FARM BARROWS

Made of seasoned hard wood. Removable sides. Wood or steel wheel. Attractively painted. Strong. Neat and durable. Made in three sizes.

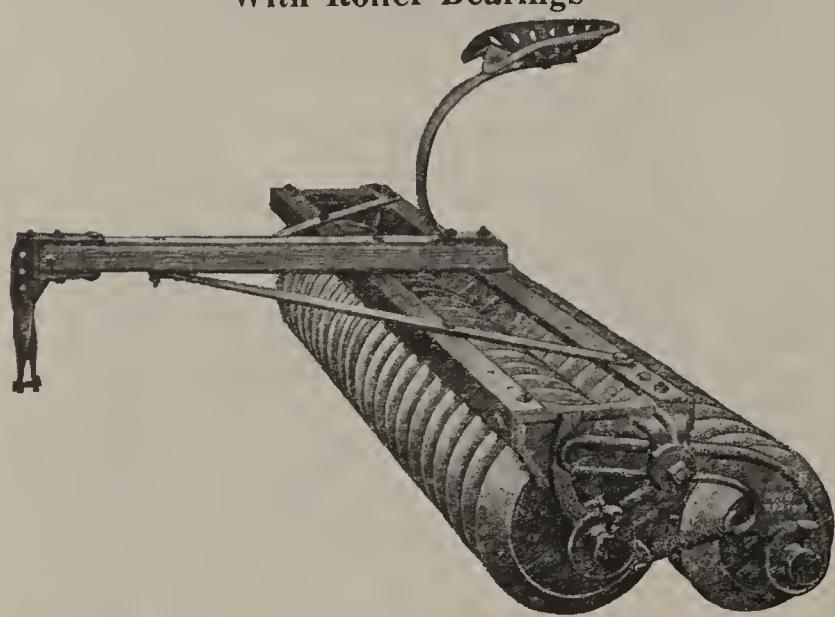
No. 1—Size of body 30 inches long, 24 inches wide in front, 25 inches in back, Price \$8.75

No. 2—Size of body 28 inches long, 20 inches wide in front, 24 inches in back....Price \$7.50

No. 3—Size of body 26 inches long, 19 inches wide in front, 22 inches wide in back.
Price \$6.75



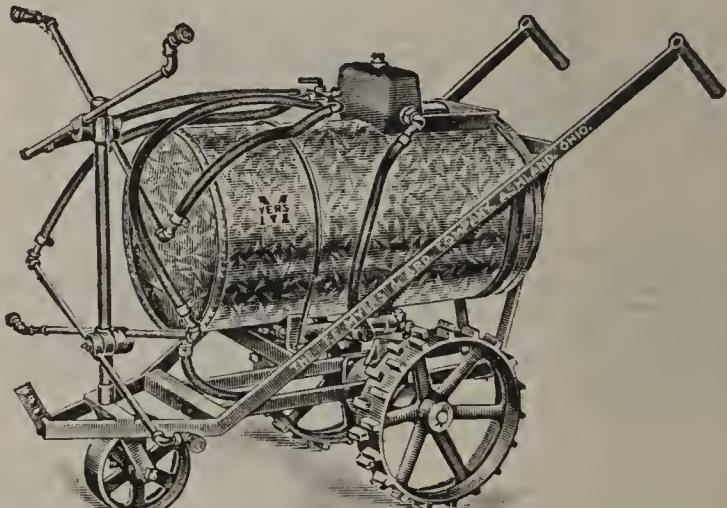
THE BRILLION KING PULVERIZER With Roller Bearings



Brillion Soil Pulverizers are built in many types and sizes. There is one available to meet successfully the conditions encountered on practically any farm.

6 feet.....	\$74.50
7 feet.....	85.00
8 feet.....	91.00
9 feet.....	99.00

MYER'S TRACTION SPRAYER



For Tobacco, Potatoes, Berries, Row Crops, Flowers or Nursery Spraying.

Fig. 2985 illustrates the complete outfit as regularly furnished. It is a one-man—one-horse—two-row—traction powered sprayer, compactly built and nicely balanced for easy handling.

No. 1078 complete as illustrated, with 25 gallon galvanized tank, semi-rotary agitator, adjustable boom, nozzles, lever shut-off and relief valve ready to spray.....Price \$72.50

No. 1078½ Similar to No. 1078 with 3 nozzles to the row for potatoes, vegetables, etc.....Price \$77.50

MYERS HANDY PORTABLE SPRAYER

No. R336 $\frac{1}{2}$ B

This is the Handy Sprayer for Spraying Tobacco Beds against Blue Mold, Blight, etc. Also extensively used for White Washing and around Orchards, Greenhouses or wherever Spraying is necessary. The Pump is similar to our No. R-318-B fitted with Cog Gear Handle and Dasher Agitator.

Equipped complete as shown in illustration, with 15 feet $\frac{1}{2}$ -in. 5-ply discharge hose, 8 foot extension rod and Vermorrel nozzle.

Price \$26.50

THE MYERS COMPRESSED AIR SPRAYER

Will spray all kinds of Liquid Insecticides and Fungicides. Not recommended for white-washing or painting.

Made in two sizes; galvanized or brass:

No. 2240—Galv. Tank, 2 $\frac{1}{2}$ gallons	capacity	\$5.25
No. 2240B—Brass Tank, 2 $\frac{1}{2}$ gallons	capacity	9.50
No. 2242—Galv. Tank, 4 gallons	capacity	6.00
No. 2242B—Brass Tank, 4 gallons	capacity	10.50



MYERS COG-GEAR DOUBLE ACTING SPRAY PUMP

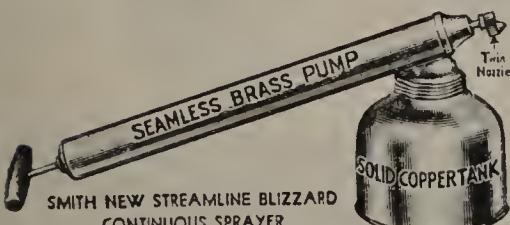


No. R316B

No. R316B Pump complete, 50 gallon barrel mounted as shown, with pressure gauge, one 15 ft. lead of $\frac{3}{8}$ inch 7-ply discharge hose, one Fembro Fig. 1290 nozzle, one 8 ft. pipe extension with lever shut off and mechanical agitator. Price, \$60.00.

No. R316C Pump complete, 50 gallon barrel mounted as shown, with pressure gauge two 15 ft. leads of $\frac{3}{8}$ inch 7-ply discharge hose, two Fembro Fig. 1290 nozzles, two 8 ft. pipe extensions with lever shut-offs and mechanical agitator. Price, \$66.50.

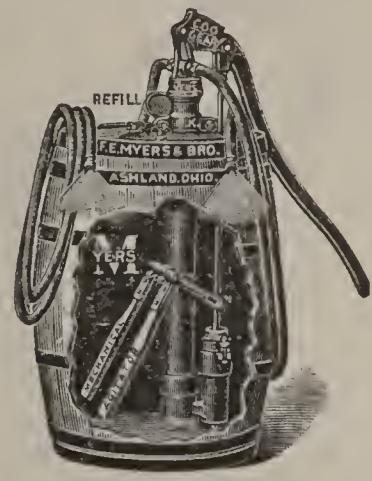
BLIZZARD HAND SPRAYER

SMITH NEW STREAMLINE BLIZZARD
CONTINUOUS SPRAYER

Capacity 1 $\frac{1}{8}$ qts. Seamless brass 1 $\frac{1}{2}$ x 15" long. Twin nozzles for straight or angle spraying. Throws a continuous spray. Price.....\$1.75

MYERS O. K. COG GEAR SPRAY PUMP

Recommended for spraying or white-washing. For hot, or cold or any kind of mixture. Can be fitted for one or two leads of hose. Price with one lead of 15-foot hose and nozzle, less the barrel.....\$27.00
Pipe extension with lever shut off.....\$2.00



No. R-318-B MYERS SPRAY PUMP



Will handle any caustic mixture. The cylinder and discharge pipe are all brass. The air chamber is 32 inches in length, enabling the pump to throw a uniform, constant and elastic spray.

Price with one lead of 15-foot hose and nozzle, less the barrel.....\$17.00
Pipe extension with lever shut off.....\$2.00

LEVER BUCKET SPRAY PUMPS

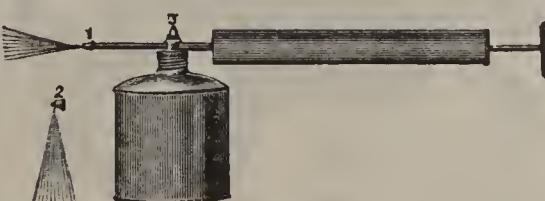
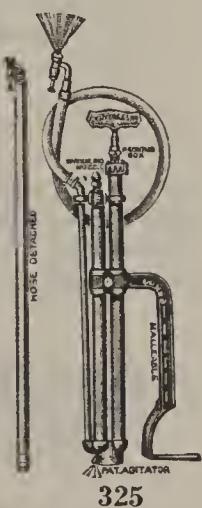


No. R324 represents the Myers Lever Bucket Spray Pump, made of brass and fitted with brass valves and patented agitator.

Price, plain.....\$6.50
Add for 8 foot extension rod.....\$1.10

No. 325, Brass Spray Pump with agitator, hose and combination fine coarse and solid stream nozzle, with malleable foot rest.

Price, plain.....\$5.00
Add for 8 foot extension rod.....\$1.10



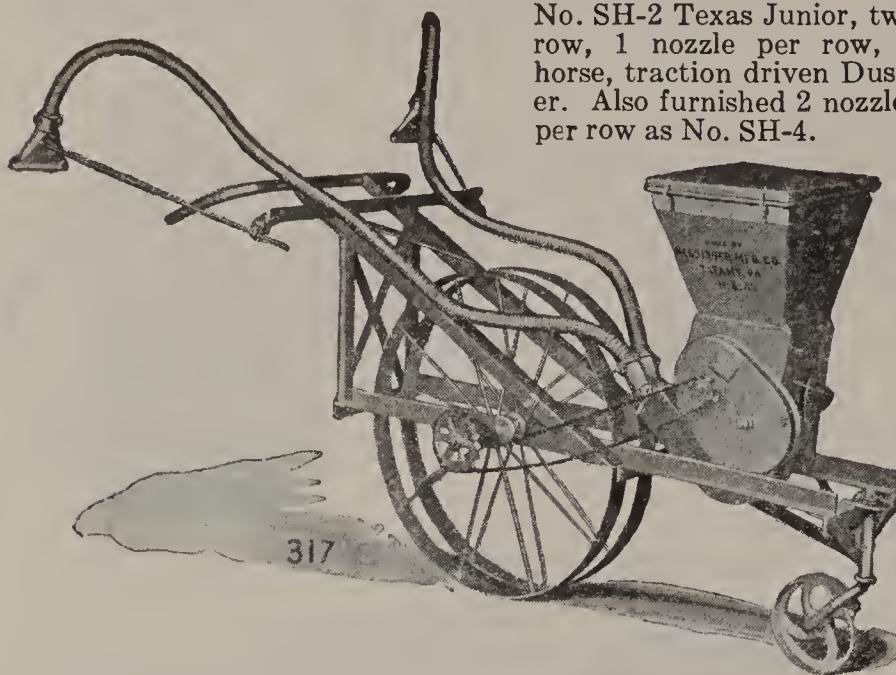
HAND SPRAYER (Continuous)

Galvanized.....\$1.50 by Parcel Post \$1.60
Brass.....\$1.75 by Parcel Post \$1.85

MYER'S PERFECT-FOG SPRAY GUNS

No. 36 Triple Spray Gun with hose swivel (as shown).....	\$10.25
No. 35 Triple Spray Gun without hose swivel.....	9.25
No. 13 Myers Spray Gun with hose swivel.....	8.00
No. 12 Myers Spray Gun without hose swivel.....	7.00





No. SH-2 Texas Junior, two row, 1 nozzle per row, 1 horse, traction driven Duster. Also furnished 2 nozzles per row as No. SH-4.

MODEL "S" DUSTERS

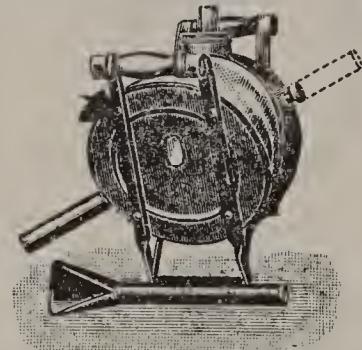
Here is a duster that every tobacco grower should have; for dusting Paris Green, Arsenate Lead or any other powdered insecticide on plants for the extermination of tobacco worms. This is a traction duster and can be equipped with two or four nozzles, for dusting high or low plants. The duster is made of heavy gauge copper bearing sheet steel. Copper bearing steel is used for rust and corrosion resistance. The fan and feeder are made of cast aluminum. The hopper has a capacity of about 30 pounds of dust. The duster is equipped with ball and roller bearings and alemite lubricating system.

No. SH-2.....Price \$65.00 No. SH-4...Price \$80.00

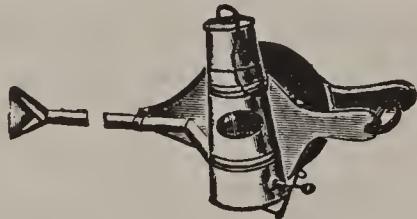
PLATZ GREEN HAND DUSTER

Easy to work and regulate. Practically indestructible—wearing parts can be readily replaced. Excellent for dusting either hill crops or underside of foliage. Handles any dust that can be used in larger outfits.

Price \$7.00



PLATZ FAMOUS HAND DUSTER



Its agitator will crush and sift sulphur as well as the standard dusting materials. Regulator is adjustable for a light or heavy application. Bellows of high quality leather. Extension pipes and spreader of 24 inches.

Price \$6.00

ROOT WALKING TRACTION DUSTER



Model T1 two outlet for dusting two rows. It handles so easily and operates with very little effort because all dead weight has been eliminated and with dust hopper empty weighs only 93 pounds, the lightest and most durable two outlet traction duster on the market.

Price.....\$35.00

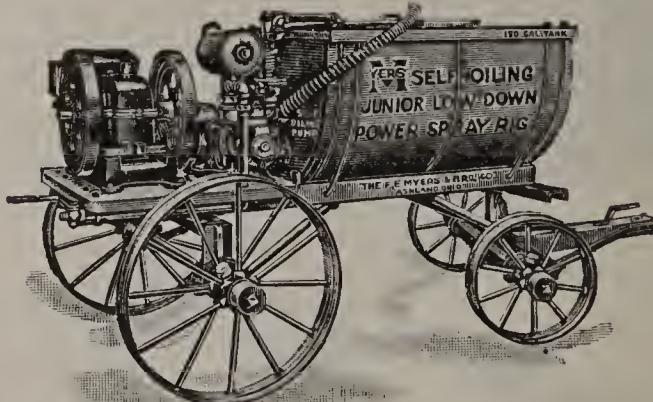
THE MYERS NEW IDEA KNAPSACK SPRAY PUMP



No. 1330A—Equipped with brass pump with a jet agitator that keeps the liquid thoroughly mixed. Tank capacity 4-gallons.

Price \$14.50

THE MYERS JUNIOR LOW DOWN POWER SPRAY RIG



Specially designed for the farmer with a small orchard who raises fruit for his own use, or for Spray Rings or Community Spraying where several farmers combine to do their own spraying or hire one of their number to spray for all.

The Myers Junior Low Down Power Spray Rig as furnished ready for the field. It has a 100 gallon Cypress Tank and Semi-Rotary Agitator. Prices on application.

PLATZ GREEN DOUBLE ACTION DUSTER



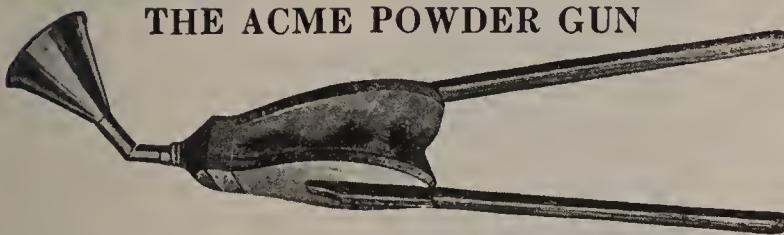
The Double Action Duster is identical with the Single Action in construction with the exception of the double bellows, which insures a more steady flow of dust with the same ease of operation, and is better adapted for dusting a denser growth of foliage.

Net weight, 17 pounds.
Capacity, 20-30 pounds.

Price \$20.00

Single Action Duster \$16.00

THE ACME POWDER GUN



Handles of convenient length and bellows of fine russet leather. A very practical and convenient way of applying Paris Green, Lice Killers, Insect Powder, etc. Price \$1.75

IMPROVED HOG SCALDER



Fire Box

Dimensions—6 feet long, 18 inches high, 30 inches wide at bottom. 22 inches wide at top.

Scalder

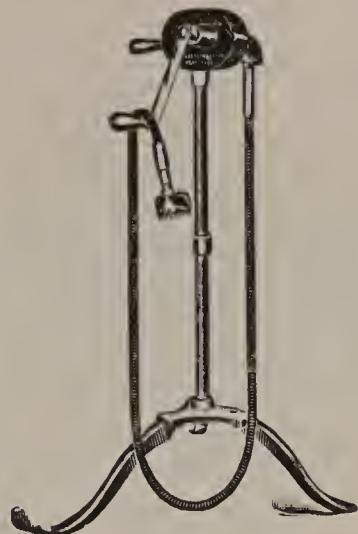
Dimensions—6 feet long, $2\frac{1}{2}$ feet wide, $1\frac{1}{2}$ feet deep.
Complete with fire box.....\$55.00
Scalder less firebox.....40.00

CAST IRON HOG TROUGHS



12 inches wide at top, 2 inches at bottom, 6 inches deep.
Capacity 2 gallons per foot.....Price \$1.00 per foot

STEWART No. 1 BALL BEARING CLIPPING MACHINE



This is the most extensively used of all clipping machines. In every country where clipping is done, it is the preferred hand power machine.

Stewart No. 1 Ball Bearing Hand Power Clipping Machine complete with shaft, chain and Model D Clipping Head, Price \$13.45.

SHEEP SHEARING ATTACHMENT

For use on the No. 1 or No. 10 Horse Clipping Machine. This attachment consists of complete No. 7 Stewart Shear Head, shaft jointed 42 inches long, complete with knives.

Price \$16.95

STEWART ELECTRIC CLIPMASTER

No. 21



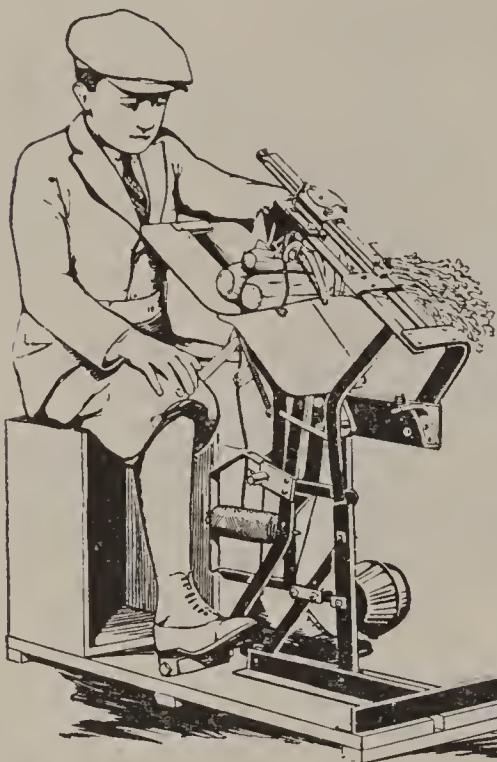
The World's Finest, Fastest Electric Clipping Machine for Cows, Horses, Mules, Dogs. The easiest most convenient way to get all the advantages of a good electric clipper. 78% more power than former models. Ball bearings instead of bushings. Completely insulated—no ground wire required\$17.95

BUCH'S RIVETLESS STEEL TROUGHS



No.	Length Feet	Width at Top Inches	Depth Inches	Capacity Gals.	Weight Lbs.	Price
58	5	14	8	20	65	\$9.00
59	6	14	8	24	76	11.00
60	8	14	8	32	93	13.00
61	10	14	8	40	119	16.00
69	5	16	9	30	70	10.25
70	6	16	9	30	85	12.50
71	8	16	9	48	111	15.75
72	10	16	9	60	127	18.75
80	5	18	10	40	91	11.75
81	6	18	10	48	102	13.75
82	8	18	10	64	122	17.50
83	10	18	10	80	141	22.00
84	12	18	10	96	168	27.00

FELIN'S VEGETABLE TYING MACHINE



Will tie bunches any size from one-quarter to five inches. Automatically adjusted to any size bunch. Special literature upon request.

Standard \$67.50
 Universal Ball Bearing 75.00
 Electric Power Bunch Tyer 150.00

BARRETT ROOFING

DEPENDABLE ROLL ROOFINGS
FOR EVERY PURPOSE AND EVERY PURSE

There's a Barrett Roll Roofing definitely right for every purpose. If you want color on the roof, Barrett Mineral-Surface Roll Roofings surfaced with firmly embedded minerals in non-fading colors, red, green, blue-black, emerald green, Spanish red or variegated—provide a wide variety of styles to choose from. All are built to give just the sort of service they are recommended for—with a degree of certainty no other roofing equals.

TOMAHAWK ROOFING

A low priced roofing of good value. 36 inches by 36 feet.
 Weights Price
 Heavy—55 lbs. per roll \$1.35
 Medium—45 lbs. per roll 1.15
 Light—35 lbs. per roll 1.00



PANAMOID ROOFING

Good quality, medium-priced roofing, mica surfaced on both sides. 36 inches by 36 feet.
 Weights Price
 Extra Heavy—65 lbs. per roll 2.10
 Heavy—55 lbs. per roll 1.80
 Medium—45 lbs. per roll 1.50
 Light—35 lbs. per roll 1.25

EVERLASTIC ROLL ROOFING

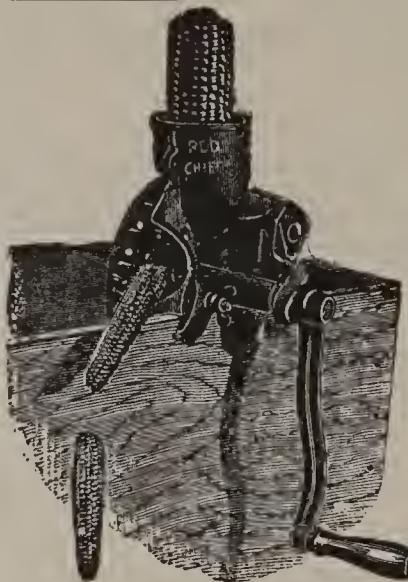
The standard of smooth-surfaced roofings, 36 inches by 36 feet.
 Weights Price
 Extra Heavy—70 lbs. per roll \$2.55
 Heavy—60 lbs. per roll 2.25
 Medium—50 lbs. per roll 1.85

Underwriters' Label

VITEX ROLL ROOFING

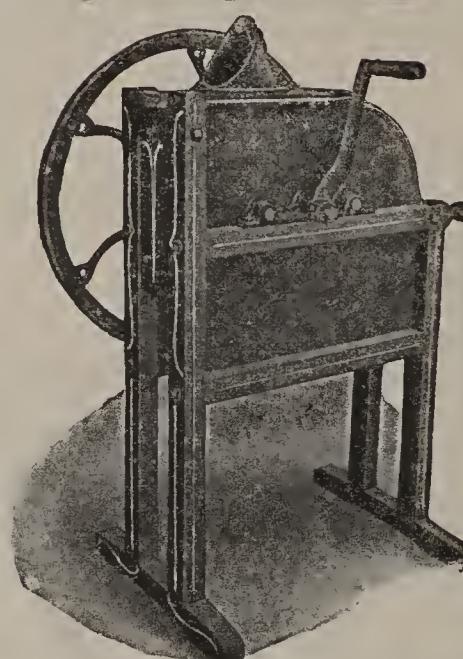
A smooth-surfaced roofing for good service at a medium price. 36 inches by 36 feet.
 Weights Price
 Extra Heavy—65 lbs. per roll \$2.50
 Heavy—55 lbs. per roll 2.00
 Medium—45 lbs. per roll 1.70
 Light—35 lbs. per roll 1.40

Underwriters' Label



"RED CHIEF" CORN SHELLER

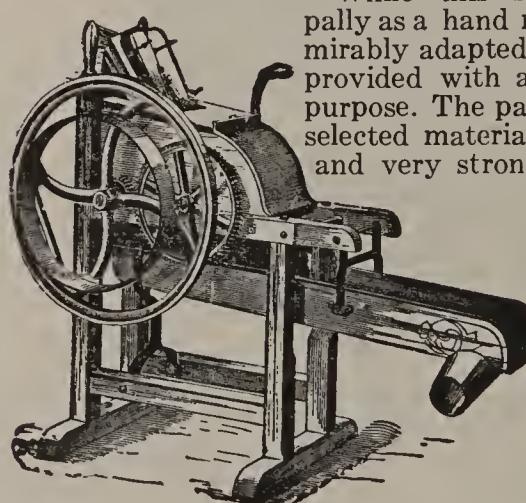
This is undoubtedly the best Sheller of its class. It has a suitable device for adjusting it to take either large or small ears, and do good work with either. It readily attaches to barrel or box, and is just the thing for persons who have but a small quantity of corn to shell. Price, \$2.25.



"BUCH'S No. 3" SINGLE SPOUT CORN SHELLER

This very popular Sheller is well made, light running, and will give good service. It has large balance wheel, with heavy rim and wrought-iron spokes. The journal boxes are engine bored and bolted to hardwood frames. Handsomely finished. Separates corn from cob. With sieve, \$15.00

"BUCH'S No. 7" DOUBLE SPOUT CORN SHELLER



While this sheller is used principally as a hand machine, still it is admirably adapted for light power and is provided with a pulley just for that purpose. The parts throughout are of selected materials, made extra heavy and very strong. Well put together and nicely finished. Cold rolled steel shafts and steel shaker pitman. Journal boxes are made in two parts and can be adjusted to take up wear.

Capacity 500 to 600 bushels per day. Price, with shaker \$34.00



EVERJET PAINT

For Rust Prevention
 1 gal. \$.75
 5 gal. 3.25

PLASTIC FLEXIGUM
Stop Leaks Everywhere

5 lb. can50
 25 lbs. can 1.50



U. S. AUTOMATIC ROPE EXTENSION LADDERS

Side Rails—Clear, straight-grained Ladder Stock.

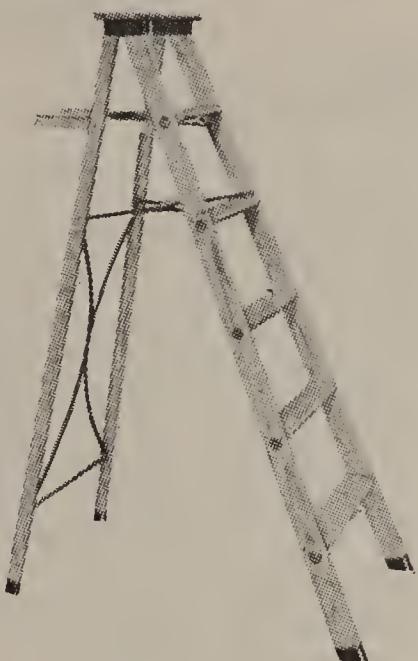
Rungs—Clear, straight-grained Hickory, smoothly finished to $1\frac{1}{8}$ inches in diameter, and 12 inches apart. Tenon $\frac{7}{8}$ inch. Automatic Locks are made of the best malleable iron, self-balancing, safe and durable, and easy to operate.

Guide Irons made of heavy pressed steel.

Made in even lengths sections from 20 to 44 feet, inclusive.

28 to 36 ft. Price per foot.....	50
38 to 44 ft. Price per foot.....	52

As a general purpose and household step ladder, this will be found to be safe, strong and durable. Made of clear straight-grained Southern Pine. Handle spreader, bucket rest, every step rodded and trussed. Channel steel back braces. maroon hardware. Approximate weight $3\frac{1}{2}$ lbs. per ft. Made in 4, 5, 6, 7, 8, 10, and 12 ft. lengths.



4 ft. to 8 ft.....	Price per ft. 45c
10 ft. to 12 ft.....	Price per ft. 50c

CHAMPION EUREKA GEARED FORGES WITH CAST IRON HEARTH

An Ideal Farm Forge for general use, large enough for plow-share work. Burns coal, coke or charcoal. The hearth is heavy cast iron, insuring durability, as it will not rust out. Forge Hearth is 30 inches high with well-braced legs, and the blower has 10-inch fan case. Speeded 48 to 1, that is, each turn of the crank produces 48 turns of fan, giving operator blast equal to a power blower with moderate turning. Gears are set in oil-tight, dust-proof, rigid cast iron gear case, insuring perfect alignment of gears, eliminating noise and short life, as all gears are accurately cut, and lay in a bath of oil. Crank turns either direction. Ball End Thrust Bearings on high-speed shaft makes turning easy and insures durability. This forge will put a welding heat on 4-inch iron in ten minutes.

No. 243 Forge with half-hood, for indoor use; 9-inch stovepipe will fit hood.



No. 104

No. 242 Forge with Shield for Outdoor use.

No. 104 Forge with half hood, as illustrated.

No.	Hearth	Fan	Height	Weight	Price
243	20 x 26"	10"	30"	120 lbs.	23.00
242	20 x 26"	10"	30"	115 lbs.	20.00
104	18 x 20"	8"	30"	90 lbs.	13.50

ROYAL STEP LADDERS

GRINDSTONES



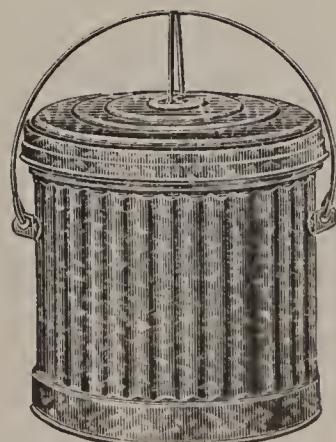
No. 1 Steel Frame, anti-friction roller bearings. Steel axle. Bushings hold stone securely to axle. Adjustable seat. Stone of best Berea Grit. Stone 19 to 22 inches in diameter. Thickness $1\frac{3}{4}$ to $2\frac{1}{4}$ inches.

Price \$10.00

No. 2 Steel Frame. Equipped with treadle and crank for hand or foot power. Dimensions of stone same as No. 1.

Price \$10.00

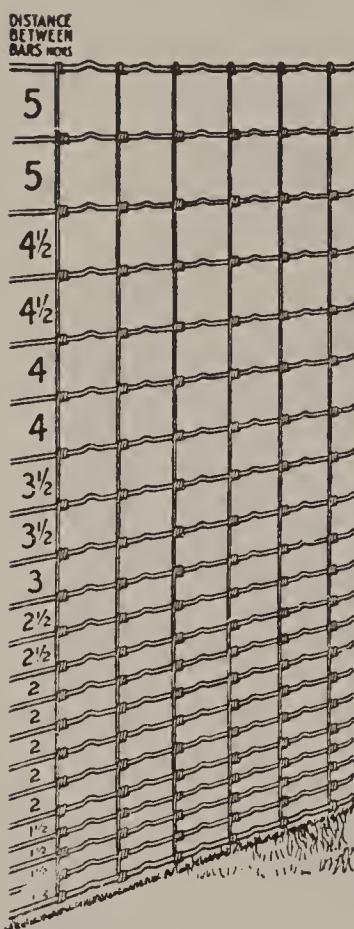
GARBAGE CANS



Hot-dipped Galvanized. Deep Corrugations. Seamless covers. Wire bail shaped to securely lock cover.

Cap.	Wt.		
No. Gals.	Size in.	each	Price
		lbs.	
31	$4\frac{1}{4}$	$12 \times 10\frac{1}{4}$	4 80c
32	$5\frac{1}{2}$	13×12	$4\frac{3}{4}$ 95c
33	$8\frac{1}{2}$	$14\frac{1}{4} \times 14\frac{1}{4}$	6 1.05
34	$9\frac{1}{2}$	$14\frac{1}{4} \times 16\frac{1}{2}$	$6\frac{1}{2}$ 1.20

AMERICAN POULTRY, GARDEN AND RABBIT FENCE.

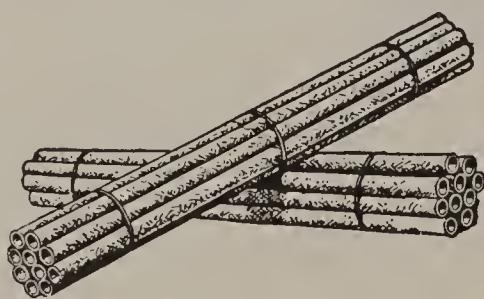


Top or bottom boards not required with this Poultry Fence on account of the close spacing between bottom line wires. An ideal chicken and rabbit-proof fence. Can be stretched like a field fence. Made in three sizes, 35 inches, 48 inches and 58 inches high. Stay wires 6 inches apart. Furnished in 10 and 20 rod rolls.

Top and bottom wire No. 11.
Intermediate and stay wires,
No. 14½.

No.	Bars	Height	Price Per Rod
2158	21	58 in.	70c
1948	19	48 in.	65c
1635	16	35 in.	50c

AMERICAN TUBULAR STEEL FENCE POSTS (Galvanized)



The use of Steel fence posts has become so general during recent years that there is no longer any question but what they are the only solution of the fence post problem.

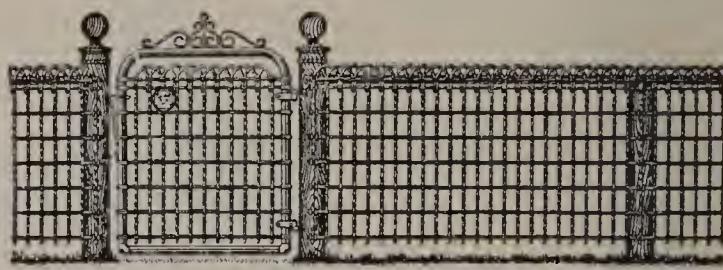
The American Steel Fence Post is stronger, heavier—bigger and better in every way

Packed 10 to a bundle for shipping.

Price:

Line Post	End Post	Corner Post
	Jr.	Jr.
\$.58	\$1.40	\$2.10
.62	.....	.....
.66	1.65	2.50
.70	.....	.....
.75	1.80	2.80
st.....		\$.50
Post.....		.25

LAWN FENCE AND GATES



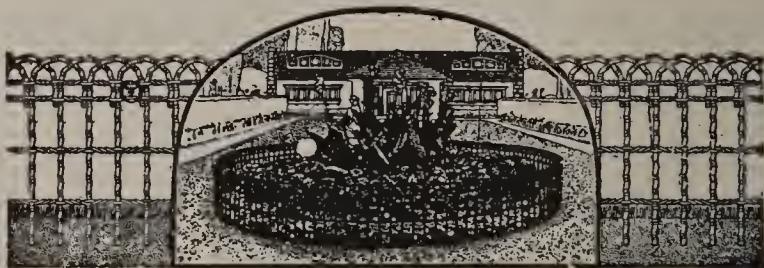
The extra-deep crimp of the picket wires forms an absolute lock for the cables, preventing their being pushed up or down on the pickets.

Our lawn fence is made of heavy steel No. 9 Galvanized wire and is woven in such a way that it cannot sag. The cables with reverse twist make proper allowance for contraction and expansion of wire due to atmospheric change. Made in two styles, single and double loop mesh.

Single Loop

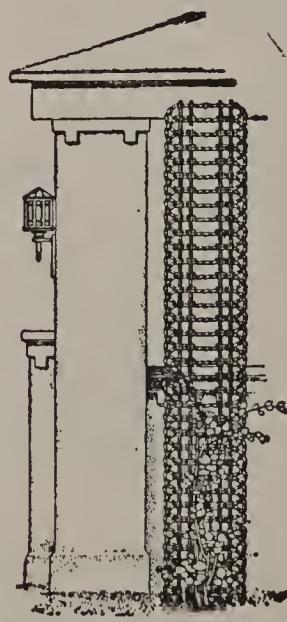
Single Loop					
36 inches high				per foot	10c
42 "	"			"	" 12c
48 "	"			"	" 13c
Double Loop					
36 inches high				per foot	14c
42 "	"			"	" 16c
48 "	"			"	" 18c
Gates to Match					
	3 Ft.	3 1/2 Ft.	4 Ft.	8 Ft.	10 Ft.
36 inches high	\$3.50	\$3.75	\$4.00	\$8.50	\$10.25
42 inches high	3.75	4.00	4.15	8.75	10.35
48 inches high	3.95	4.25	4.50	9.15	10.65

FLOWER BED GUARD



Made in two sizes, 18 and 22 inches. Requires no posts. Cut any length to fit any flower bed or border.

18 inches high—per foot.....	\$.07
22 inches high—per foot.....	.08



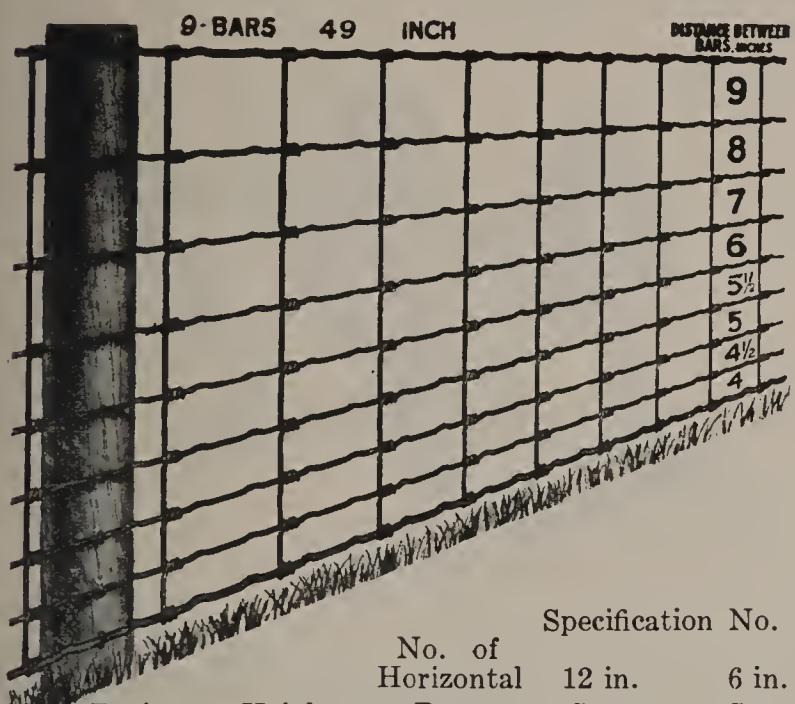
TRELLIS WIRE

Adds to the beauty of any home, very attractive in appearance. Made of very heavy galvanized wire neatly woven in such a way as to make a strong and durable support for the heaviest growth of vine.

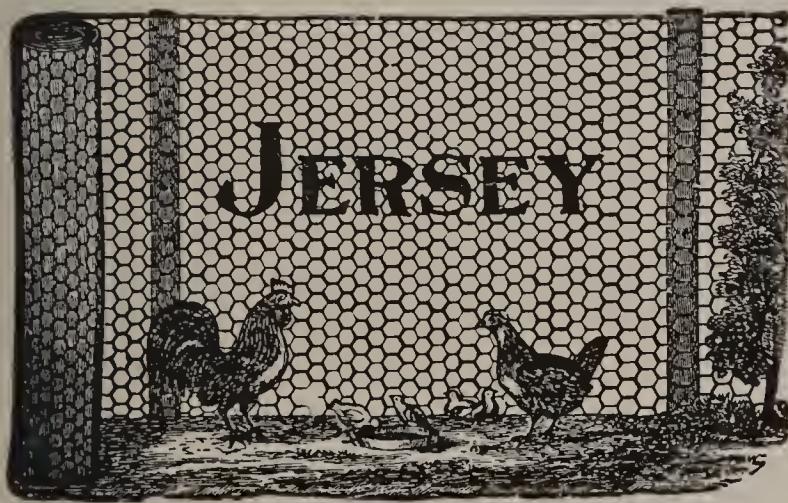
Cut to any desired length.

18 inches..... \$.08
24 inches..... .09

U. S. S. AMERICAN LONG LIFE WIRE



Design No.	Height	No. of Horizontal Bars	Specification No. 11	
			12 in. Stay	6 in. Stay
726	26 in.	7	40c	50c
832	32 in	8	46c	62c
939	39 in.	9	53c	71c
1047	47 in	10	60c	80c
1155	55 in.	11	67c	92c



DIAMOND MESH POULTRY NETTING

The wire we offer is No. 20 Double-Twist 2-inch Mesh, thoroughly galvanized. Sold in bales of 150 running feet. (Galv. After Weaving)

No.	Ins. Wide	Sq. Feet	Retail Price	
			Per Bale	Per Bale
20	12	150	\$1.08	
20	18	225	1.47	
20	24	300	1.86	
20	36	450	2.62	
20	48	600	3.40	
20	60	750	4.16	
20	72	900	4.94	

ONE INCH MESH

No.	Ins. Wide	Sq. Feet	Retail Price	
			Per Bale	Per Bale
20	12	150	\$2.05	
20	18	225	2.95	
20	24	300	3.85	
20	36	450	5.60	
20	48	600	7.25	
20	60	750	9.00	
20	72	900	10.85	

Price—Cut Lengths

1 in. Mesh.....
2 in. Mesh.....

2 1/2c per square foot

1 1/2c per square foot

TURNS CATTLE, HORSES, HOGS AND PIGS

Every Rod Guaranteed by us and guaranteed by the manufacturers. Call and see it. We can show you how it will save you money and fence your fields so they will stay fenced.

MATERIAL

Hard Stiff Steel—The development of American Fence, the years of experiment and hundreds of thousands of dollars that have been put into the work of perfecting machinery and producing the grade of special steel that makes American Fence what it is today would be a long story. By the use of this special steel the value of American Fence to the user is increased many fold, and we firmly believe it to be as near absolute perfection as can be attained, or the necessities of the case demand.

In the above design the No. 9 wire is used for top and bottom bars, No. 11 wire for intermediate bars and stays. Should you desire any other style Fence write for booklet.

U. S. S. AMERICAN LONG LIFE

Barb Wire 80 Rod Rolls

Lyman 4 pt Hog Wire.....	\$4.60 per roll
Lyman 4 pt Cattle Wire.....	4.25 per roll
1 1/4 inch Staples.....	per lb. .06c
7/8 inch Staples.....	per lb. .12c

THE LOTT STRETCHER

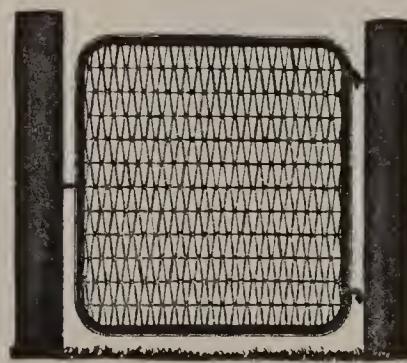
The simplest, cheapest and most efficient tool ever gotten out for stretching fence. It is strong enough to stretch from 10 rods to a mile of fence at a time. Anybody can operate it.



Price \$8.00

[Patented]

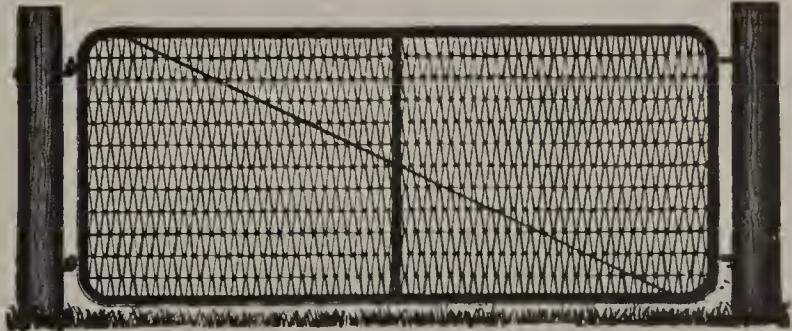
TOWNSEND WIRE STRETCHER—\$1.50



AMERICAN WALK GATE

3 feet by 50 inches,	\$3.50
3 feet by 58 inches,	\$3.75
3 1/2 feet by 50 inches,	\$4.00
3 1/2 feet by 58 inches,	\$4.25

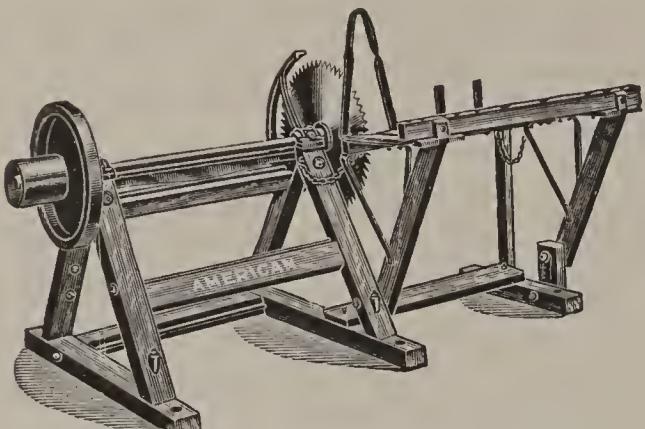
AMERICAN SINGLE DRIVE GATE



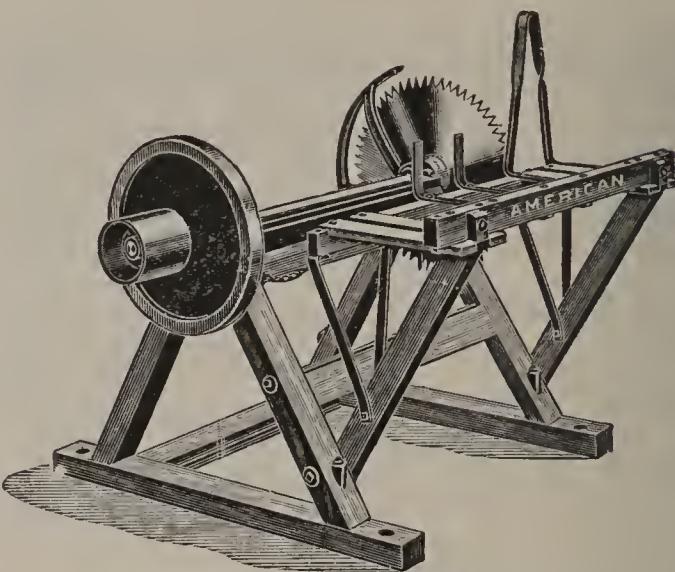
10 feet by 50 inches.....\$10.00
12 feet by 50 inches.....12.00

Prices on Other Size Walk, Single-Drive Gates Furnished on Application

SAW TABLES AND SAWS



No. 7 Cross Cut Saw

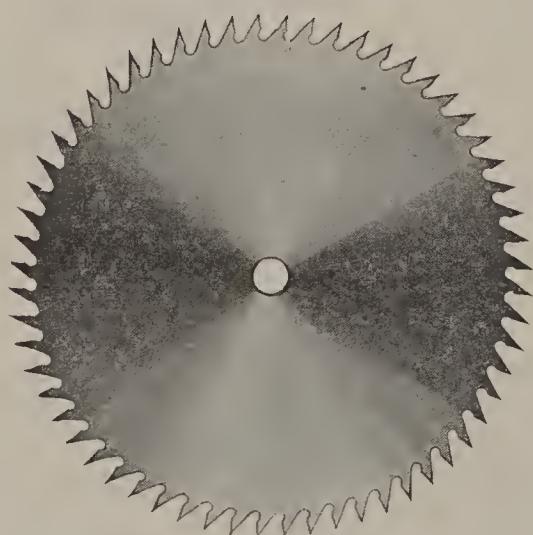


No. 5 Cross Cut Saw

WOOD CROSS CUT SAWS

In the Nos. 5 and 7, we offer exceptional values. This is clearly visible to the user of a sawing outfit without looking into the machines further than the illustrations. It will be noticed that these machines are so equipped to meet every requirement for pole or cord wood sawing. The tilting, or extension table, is easily changed to any of the different positions illustrated. These machines are made of hard wood, mortised and tenoned and neatly fitted together. They are bolted and braced in the best possible manner, giving to them that strength and durability so essential to a machine of this character. The boxes are all babbitted. Nothing but first class materials and the best of workman-

CIRCULAR SAWS



24-inch—1 3/8 hole.....	\$4.50
26-inch—1 3/8 hole.....	5.50
28-inch—1 3/8 hole.....	6.00
30-inch—1 3/8 hole.....	6.50

ship enter into the construction of these machines, so that we do not hesitate to fully guarantee every one. Size of mandrel 52 inches long, 1-7-16ths inches round. Balance wheels are 20 inches in diameter, weight 65 pounds. Pulleys are 6 inches in diameter, 6 inch face.

Prices:

No. 7—Without Blade.....	\$27.00
No. 7—With 24-inch Saw.....	31.50
No. 7—With 26-inch Saw.....	32.50
No. 7—With 28-inch Saw.....	33.00
No. 7—With 30-inch Saw.....	33.50
No. 5—Without Blade.....	24.50
No. 5—With 24-inch Saw.....	28.50
No. 5—With 26-inch Saw.....	29.50
No. 5—With 28-inch Saw.....	30.00
No. 5—With 30-inch Saw.....	30.50

ONE MAN CROSS CUT SAW



3 foot, \$2.00 3 1/2 foot, \$2.50 4 foot, \$2.90

STEEL WEDGES—FOR SPLITTING WOOD

Weight	Prices
3 pounds.....	\$.33 each
3 1/2 pounds.....	.35 each
4 pounds.....	.38 each
4 1/2 pounds.....	.43 each
5 pounds.....	.46 each
6 pounds.....	.53 each
7 pounds.....	.62 each

WIDE BLADE CROSS CUT SAWS



5 foot, less Handles.....	\$3.25	6 foot, less Handles.....	\$3.90
5 1/2 foot, less Handles.....	3.60	Handles, per pair.....	.40

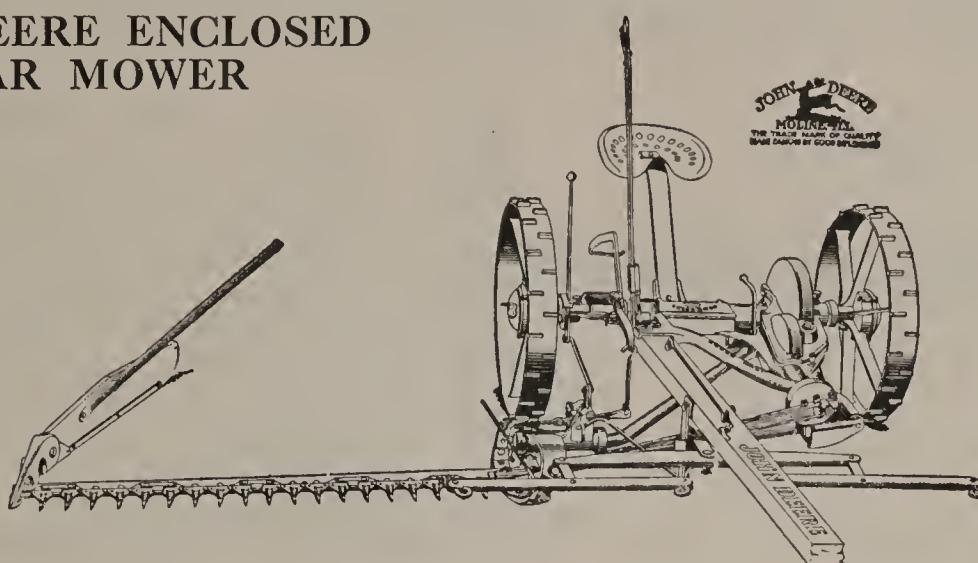
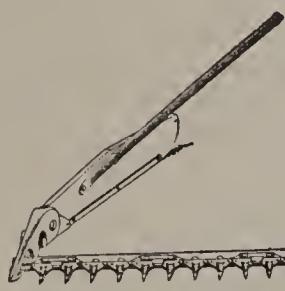
NARROW BLADE CROSS CUT SAWS



5 foot, less Handles.....	\$2.50	6 foot, less Handles.....	\$3.00
5 1/2 foot, less Handles.....	2.75	Handles, per pair.....	.40

All Prices Subject to Change Without Notice

JOHN DEERE ENCLOSED GEAR MOWER



When you get on the seat of the John Deere Mower the first outstanding feature you will notice is its high, easy lift with either foot or hand lever. You will appreciate the quickness and ease with which every field condition can be quickly met.

When you operate the John Deere a few rounds you will notice the riding comfort, the perfect balance of the machine, the instant starting of the knife in the heaviest hay and the clean job of cutting.

Its durable and simple construction; the ease with which adjustments can be made to keep it in good running order; the ease with which repairs can be made—these qualities too, built into this light-draft, high-lift mower, will prove your good judgment in your selection.

We Can Furnish Tractor Hitch for Heavy Duty Mower

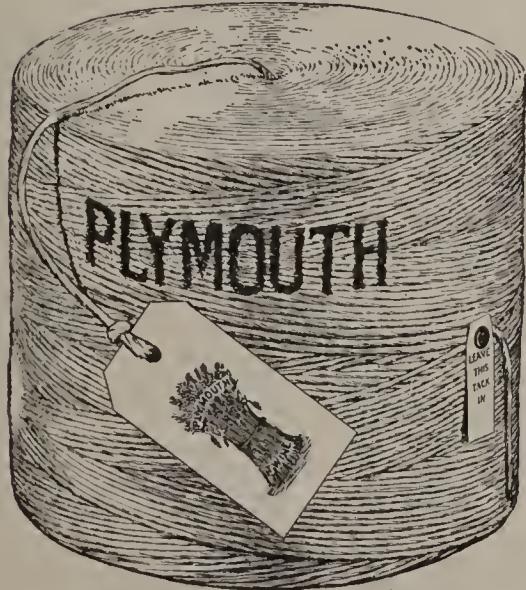
JOHN DEERE ONE-HORSE MOWER

The John Deere High-Lift One-Horse Mower is the same as the two-horse machine, except for its lighter construction, which fits it for one-horse work.

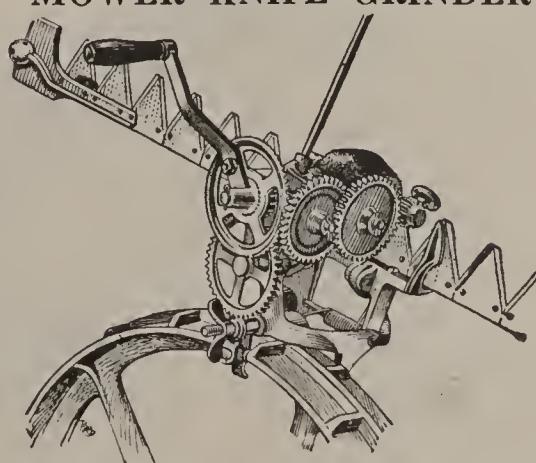
It has the high, easy lift, the balanced drive gears, the quickly and easily made field adjustments, flexibility of the cutter bar; in fact, all of the features that have made the John Deere two-horse machine a favorite on thousands of farms.

Prices:	
No. 3—4½ ft. cut, with pole, neck yoke and steel eveners	\$96.00
No. 3—5 ft. cut, with pole, neck yoke and steel eveners	99.00
No. 4—3½ ft. cut, with pole, neck yoke and steel eveners	100.00
No. 4—4½ ft. cut, with pole, neck yoke and steel eveners	102.00
No. 4—5 ft. cut, with pole, neck yoke and steel eveners	104.00
No. 4—6 ft. cut, with pole, neck yoke and steel eveners	106.00
No. 4—7 ft. cut, with pole, neck yoke and steel eveners	109.00

BINDER TWINE



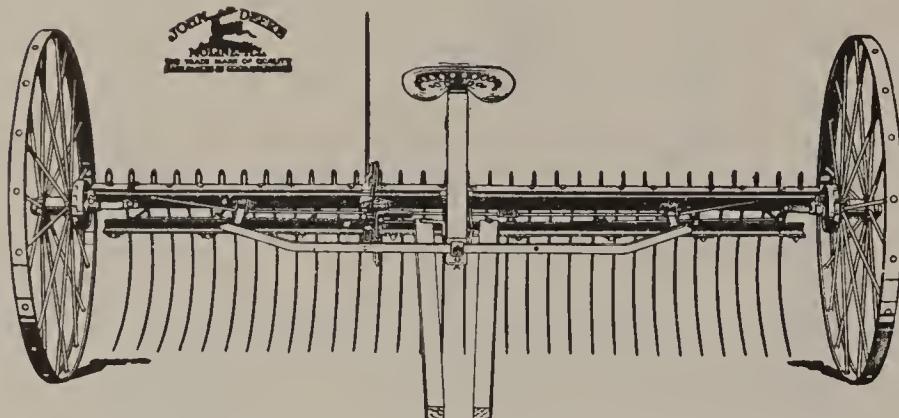
It is impossible to give the price of Binder Twine in advance, as the price is subject to market changes. Write for prices.



There is nothing harder on the mower or on the team than dull knives. The Knife Grinder can be clamped to the rim of the wheel, where it is easy to use. The knife sections can all be ground with a perfectly clean beveled edge, all of them exactly alike. This grinder is equipped with a fine-tempered steel regulator, which adjusts the pressure so that all of the sections can be ground evenly and regularly. The handle runs parallel to the knife, which is always in plain sight while being ground. Thus there is no danger of cutting the operator's hands. The grinder can also be fastened to a bench. A special stone for grinding tools or gumming saws will be furnished on special order.

Price.....\$6.00

JOHN DEERE SELF-DUMP STEEL HAY RAKES



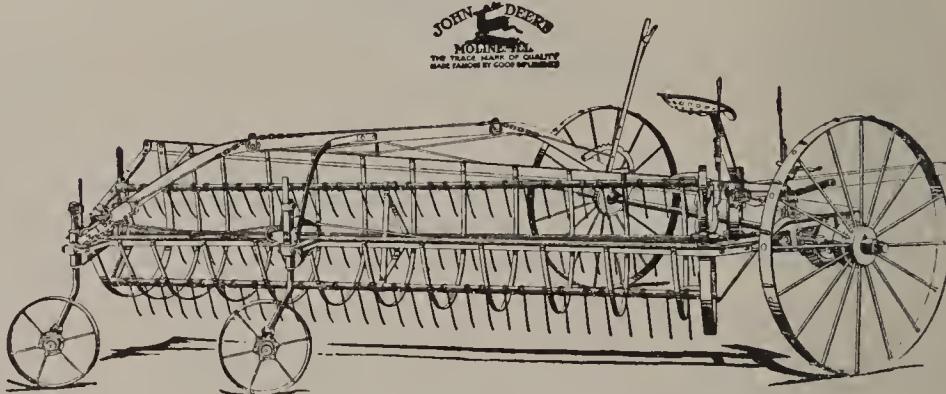
Sizes and Equipment

Made in 8-, 9-, 10-, 11-, and 12-foot sizes. Relief spring regulator on 11- and 12-foot. This spring is recommended for 10-foot rake equipped with heavy teeth, or when a great amount of heavy work is being done. The 8- and 9-foot rakes are regularly equipped with combination singletree and pole extension; the 10-, 11- and 12-foot rakes with plain pole extension.

Prices on John Deere Rakes

8 foot—24 teeth	\$51.00
9 foot—28 teeth	53.00
10 foot—32 teeth	57.00

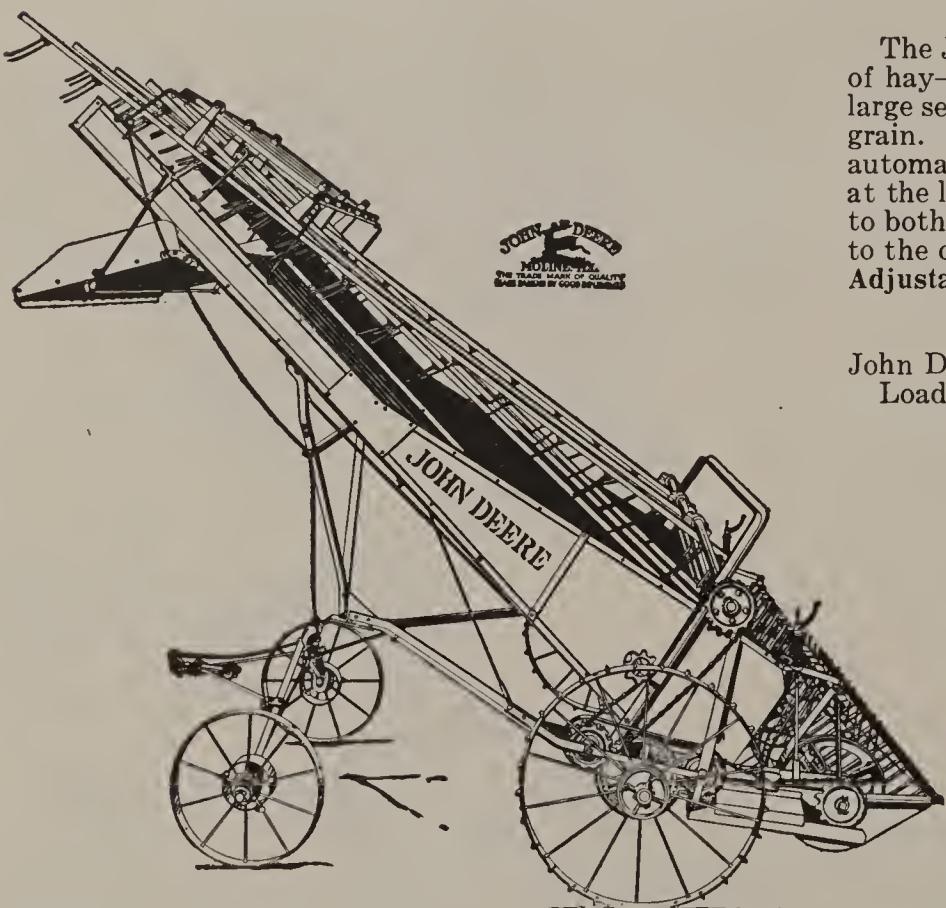
JOHN DEERE SIDE-DELIVERY RAKE WITH FLOATING CYLINDER



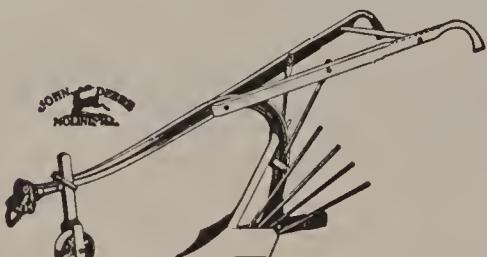
Floating Cylinder—An exclusive patented feature makes a lighter-running rake that follows the lay of the land and rakes cleaner, that "Floats" the hay into loose, fluffy windrows.

No. 553 System Left Hand 3 Wheel \$127.50
 No. 554 System Left Hand 4 Wheel 137.50
 Fourth Wheel Attachment for side rake 9.50
 For Grease Gun, add 2.25

JOHN DEERE RAKER BAR AND CYLINDER HAY LOADER



ECLIPSE POTATO DIGGER

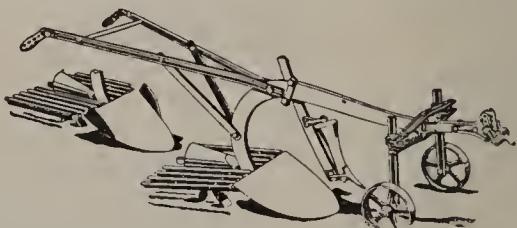


The John Deere Loader successfully handles any quantity of hay—from the lightest swath to the heaviest windrow or large separate bunches of hay, bound or unbound sheaves or grain. The adjustments are not only ample, but entirely automatic. The special springs which control the opening at the lower end of the compressors give the proper pressure to both large and small quantities of hay as it is delivered to the carrier.

Adjustable carrier delivers hay closer to rack in starting load. Saves work in windy weather.

Price:
 John Deere Combination Raker Bar and Cylinder Loader \$150.00

SHAKER POTATO DIGGER



Steel beam. Natural temper steel blades. Provided with weed fender and gauge wheel. The Shaker Digger has a perfectly flat blade and will not cut the potatoes. The rod grating is hinged at the front and is given an up-and-down shaking motion by the sprocket wheel at the rear. This shakes the dirt off from the tubers and leaves them clean and whole on top of the ground.

With Gauge Wheel and Weed Fender \$24.00
 With Gauge Wheel and Forecarriage 27.00
 Forecarriage, Extra 4.00

The Eclipse is a moderate-priced potato digger that is being widely used with great success. The rod moldboard frees the potatoes from dirt and leaves them where they are easy to see and pick up. Extra high clearance in throat of beam. Strong steel blade scours and wears well. Gauge wheel regulates depth. Adjustable handles. Steel beam. Price Complete with Gauge Wheel \$20.50

JOHN DEERE-HOOVER POTATO DIGGER



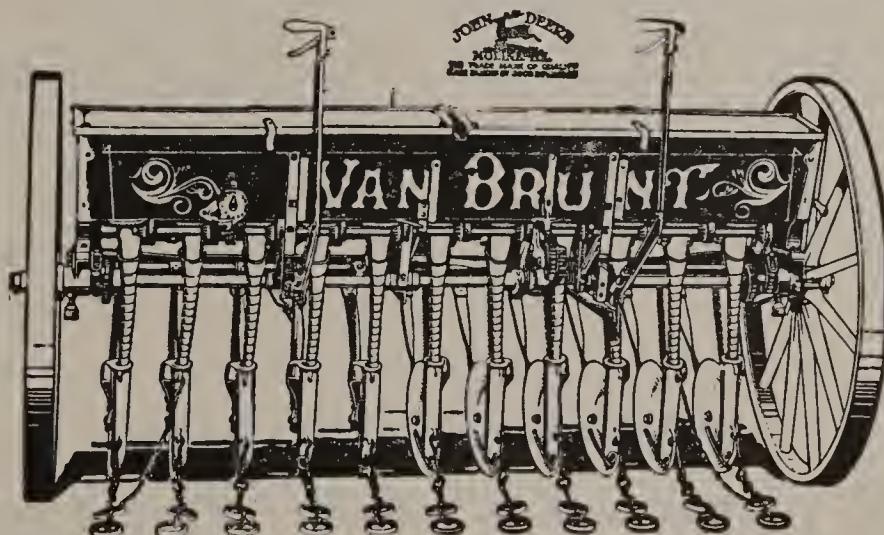
Growers everywhere know the reputation of the John Deere-Hoover Potato Digger for great strength and long service, its efficient performance in any field condition, and its ability to deliver the potatoes dirt free with the least possible mechanical injury.

No. 622C—6 ft. 22 in. Extension Elevator, with 4-horse evener \$165.00

No. 724C—7 ft. 24 in. with continuous elevator and 4-horse evener 185.00

Prices on other sizes furnished on application.

VAN BRUNT FERTILIZER GRAIN DRILL



Furnished With Wood or Steel Wheels

Sizes—7-inch feeds; 9, 10, 11, 12, 13, 16 discs, shoes or hoes; 8-inch feeds; 6, 8 discs, shoes or hoes.

Seed is Covered Properly—Rapid Growth is the Result.

Every kernel or seed is conveyed by metal tubes from the feed to the bottom of the furrow before any soil can drop back. The seed beats the dirt. The Van Brunt Disc Drill boots make this possible. They are brought forward so that they lie entirely within the surface of the disc. The seed passing through does not come in contact with the upturning disc surface.

Grass Seed Attachment Extra

All Van Brunt High Wheel Grain Drills can be supplied with grass seeders, which can be used either for drilling or broadcasting clover, timothy, alfalfa, and other similar seeds. It is attached to the front of the grain box and can be used at the same time seed is being planted and fertilizer distributed.

GRAIN DRILLS—MODEL F

With Fertilizer Attachment

HORSE DRAWN FERTILIZER, MODEL "F"

With Wood or Steel Wheels, and Alemite Zerk Lubrication

Wood Box, Less Grain Agitators.

DISC DRILLS

8x8 Single Disc, 1 pole, 2-h. hitch, W. W. 75.....	\$152.00
9x7 Single Disc, 1 pole, 2-h. hitch, W. W. 75.....	160.00
10x7 Single Disc, 1 pole, 2-h. hitch, W. W. 75.....	170.00
10x8 Single Disc, 1 pole, 2-h. hitch, W. W. 75.....	173.00
11x7 Single Disc, 1 pole, 2-h. hitch, W. W. 75.....	179.00
12x7 Single Disc, 1 pole, 2-h. hitch, W. W. 75.....	188.00
13x7 Single Disc, 2 pole, 3-h. hitch, W. W. 75.....	210.00
16x7 Single Disc, 2 pole, 4-h. hitch, W. W. 107.....	252.00
8x8 Double Disc, 1 pole, 2-h. hitch, W. W. 75.....	164.00
9x7 Double Disc, 1 pole, 2-h. hitch, W. W. 75.....	172.00
10x7 Double Disc, 1 pole, 2-h. hitch, W. W. 75.....	183.00
10x8 Double Disc, 1 pole, 2-h. hitch, W. W. 75.....	188.00
11x7 Double Disc, 1 pole, 2-h. hitch, W. W. 75.....	196.00
12x7 Double Disc, 1 pole, 2-h. hitch, W. W. 75.....	205.00
16x7 Double Disc, 2 pole, 4-h. hitch, W. W. 107.....	275.00

Above Drills priced with Alemite-Zerk Grease Gun.

If not wanted, deduct \$2.00

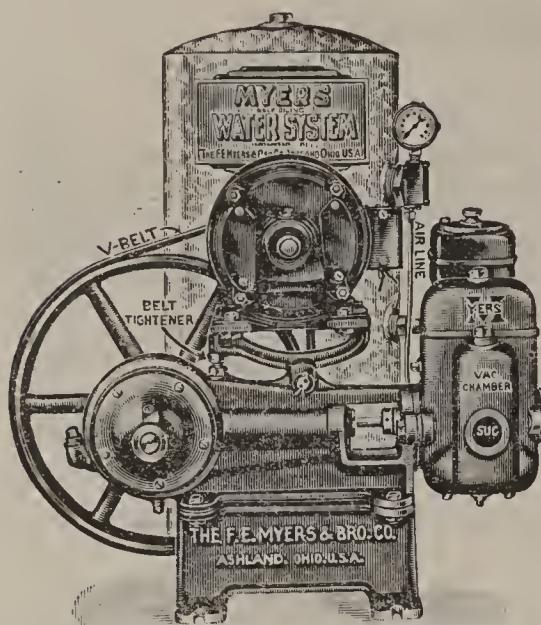
For Center Foot Board Attachment, add 1.75

SHIFTER SPRING HOE DRILLS

8x8, 1 pole, 2-horse hitch, W. W. 75.....	\$147.00
9x7, 1 pole, 2-horse hitch, W. W. 75.....	154.00
10x7, 1 pole, 2-horse hitch, W. W. 75.....	164.00
10x8, 1 pole, 2-horse hitch, W. W. 75.....	167.00
11x7, 1 pole, 2-horse hitch, W. W. 75.....	172.00
12x7, 1 pole, 2-horse hitch, W. W. 75.....	182.00
16x7, 2 pole, 4-horse hitch, W. W. 107.....	242.00

Above Drills priced with Alemite-Zerk Grease Gun.

If not wanted, deduct \$2.00

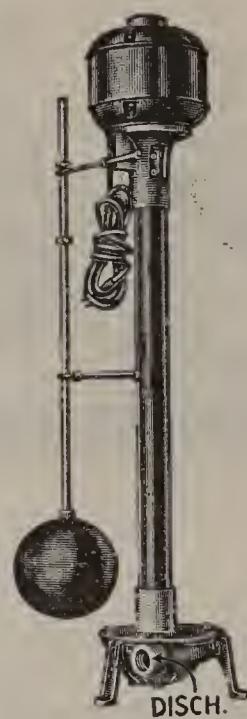


**MYERS
SELF-OILING
AUTOMATIC
WATER
SYSTEM**
Perfect and Con-
tinuous Lubri-
cation.

The Myers Self-Oiling Home Water System is Automatic. Its operation is controlled by an Electric Switch which automatically starts the pump when the pressure in the tank falls to 20 pounds and stops the pump when the pressure reaches 40 pounds. The pressure is always maintained between these two points. The air supply in the tank is controlled by the Automatic Air Volume Control. No personal attention necessary. For use in raising water not exceeding 25 feet vertical lift to low water level.

Pump No.	Capacity Gals Per Hour	Motor H.P. Current	Suc- tion	Dis- charge	Tank Galv.	Price
				Inch	Inch	
1906AT	250	1/6 AC.	3/4	3/4	42	75.00
1909AT	340	1/4 AC.	1	3/4	42	79.00

THE MYERS CENTRIFUGAL SUMP PUMP



Built to supply the demand for a really dependable automatic cellar drainer, this new unit is notable for its sturdy construction and simplicity. Recommended as equal to the best the market affords in care-free service.

MOTOR: Ball bearing (no oiling necessary). $\frac{1}{4}$ H.P. heavy duty, continuous service, induction type, 110 volt, 60 cycle, 1725 r.p.m., built specially for sump pump application.

PUMP: All bronze stainless steel shaft and ball bearing thrust, all other bearings oilless (no greasing or oiling necessary).

AUTOMATIC CONTROL: Enclosed switch, positive type, actuated by oversize ball float connected to control rod. Control rod has adjustable stops to regulate trip of switch for pumping at various levels.

INLET: Large inlet in under pump fully protected by non-clogging screen.

OUTLET: The outlet is tapped for standard 1-inch fittings for easy connection to pipe or hose line.

INSTALLATION: Cord and plug is supplied with each unit for attaching to ordinary socket. Cord length 8 feet.

HEIGHT: 40 inches. **WEIGHT:** 65 pounds.

A crock 24 inches or larger is recommended for sump.

CAPACITY TABLE—Head in Feet—Gallons per Hour.

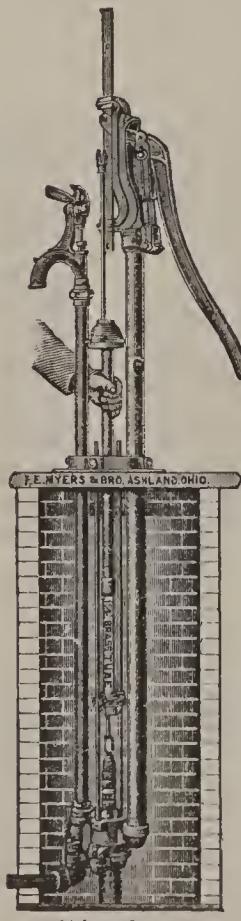
Ft. Head.....	1 ft.	5 ft.	10 ft.	15 ft.	20 ft.
Gallons	2400	1900	1500	900	400

Price \$39.50

Tell us what your requirements for water are, and allow us to quote you on the proper Water System or Pump.

MYERS HAND PUMPS

MYERS VICTORY SINGLE ACTING 3-WAY FORCE PUMP



Malleable iron shield over cog gears. With adjustable base and reversible spout. Has patent glass valve seat and poppet valve. Anti-freezing. Made with galvanized pipe only. The advantage of this style handle is that it allows the piston to move in a direct line without swaying from side to side, as is necessary with the old style handle. This extra leverage adapts the pumps to deep wells. The spout is attached to the pump head by means of bolted flange union, making it reversible. The water flows from the spout in a smooth even stream, equal to that of any double-acting force pump. The base will fit over the top of a 6-inch well pipe. Fitted with brass lined, polished iron or brass cylinder. 4-foot set length.

Prices:

Fig. 2994—No. 1229 Victory 3-way Force Pump Head, plain handle, less cylinder \$23.50
Fig. 2994—No. R 1229 Victory 3-way Force Pump Head, cog gear handle, less cylinder 23.50

MYERS COG GEAR SINGLE ACTING FORCE PUMP

Anti-freezing, plain handle pump, 6, 8 and 10 inch stroke. Cog gear head, 7-inch stroke for hand, 10-inch stroke for windmill. For tubular wells. Upper cylinder plunger and check valve withdrawn through base. The Victor is so constructed that all working parts can be withdrawn and replaced through the base without going below the platform. Made with galvanized pipe only.

Prices:

Fig. 1898—Force Pump No. R 1070, with 2½-inch brass-lined cylinder \$14.00
Fig. 1898—Force Pump No. R 1072, with 3-inch brass-lined cylinder 14.50
Fig. 1898—Lift Pump No. R 1050, with 2½-inch brass-lined cylinder 12.50
Fig. 1898—Lift Pump No. R 1052, with 3-inch brass lined cylinder 13.00
Fig. 1898—Lift Pump No. R 1058, with 3-inch polished iron cylinder 10.00

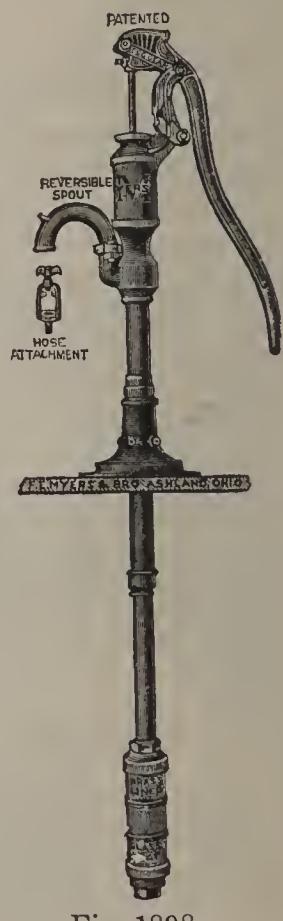
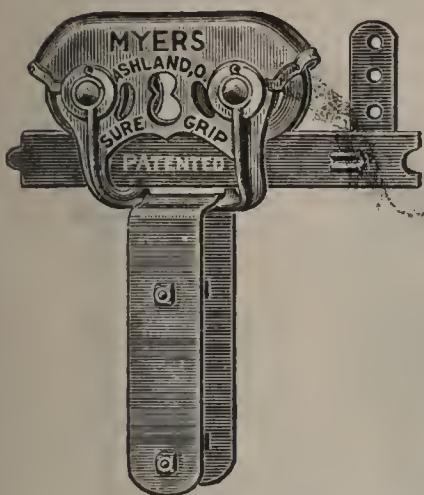


Fig. 1898

MYERS SURE GRIP PLAIN TANDEM FLEXIBLE DOOR HANGERS



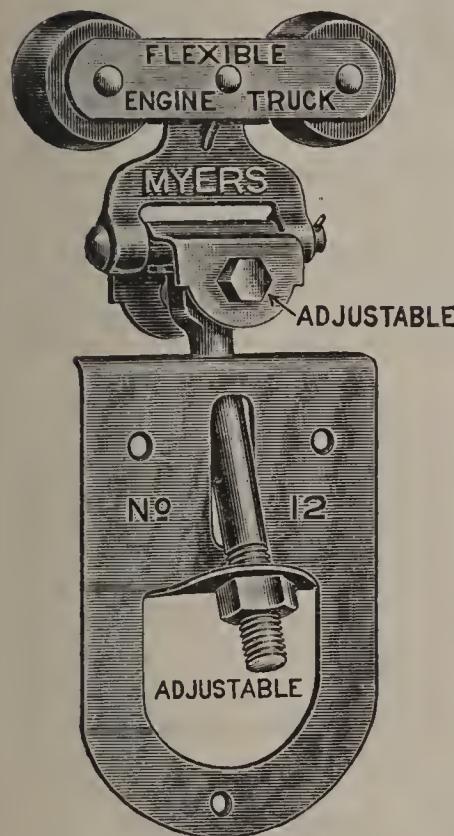
These cuts show the front and back view of the Sure Grip Plain Tandem Door Hangers. Note the heavy malleable rib supporting the main frame, which adds great strength and enables the hanger to carry any weight door. Track is made of high carbon steel in 4, 6, 8 and 10 foot lengths.

Sure Grip Tandem Hangers, per pair, complete
with bolts \$2.00 pair
Track 10½ per ft.

Do not jump the track.



THE MYERS NEW WAY TANDEM ADJUSTABLE DOOR HANGERS

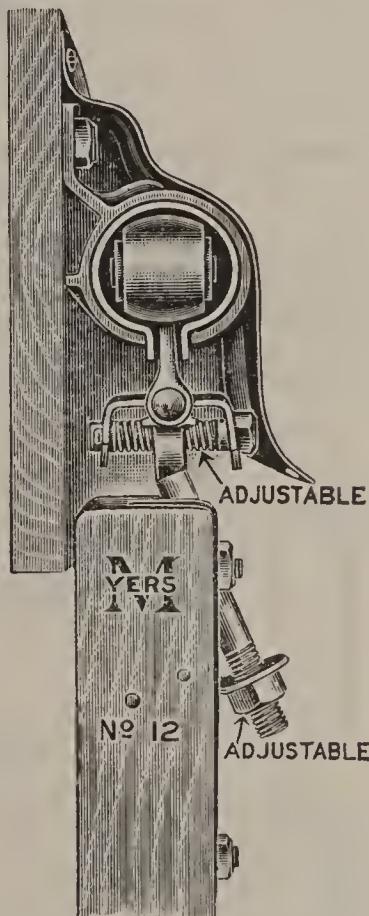


The New Way tubular track is mounted with brackets. We call special attention to the two flanges shown on the underside of the track, which are a part of the track itself, turned down forming a girder or truss, which stiffens the track, and adds greatly to its strength and carrying capacity.

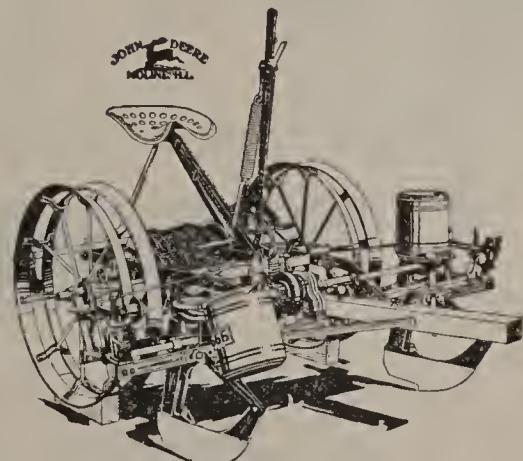
The trolley rollers are of solid steel roller bearings.

The hanger has two adjustments vertical and lateral, so that with any ordinary wrench the door can be adjusted to the building.

Hangers per pair with bolts	\$2.50 pair
Tubular Track, 4, 6 and 8 foot lengths	.22 foot
Intermediate Brackets	.17 each
End Brackets	.17 each
New Way, Non-Adjustable	2.00 per pair



JOHN DEERE No. 999 CORN PLANTER



A CORN PLANTER DOES ITS WORK UNDERGROUND

There is no way of determining to what extent an inaccurate planter is robbing its owner until the crop is up, and then it is usually too late for him to recover his losses. The Famous John Deere Natural-Drop Seed Plates and Sloping Hopper Bottom are largely responsible for the unfailing accuracy of John Deere Corn Planters.

This Planter will narrow into 2 ft. 4 in. rows

Price, Plain Planter	\$88.00
Fertilizer Attachment, Extra	28.50
Gauge Shoes, per pair	3.25

ACME ROTARY AUTOMATIC HAND CORN PLANTER

Full rotary drop. Pressed steel hopper. Adjustable cast disk or seed plates. Malleable ratchet lever. Brass spring cut-off. Double coil main spring. Extreme accuracy of drop due to novel exclusive and common sense design of seed plates, and brass spring cut-off or stripper. Double coil spring automatically rotates disc and closes jaws. Used in one hand like a walking stick. Disk is set for correct number of kernels by loosening thumb nut, moving star till pockets are of right size, then tightening thumb nut again. Plunge planter in ground, rock forward to trip seed, and withdraw.

Price \$2.75

THE MYERS O. K. HAY UNLOADER, TRACK, FORKS, AND FIXTURES

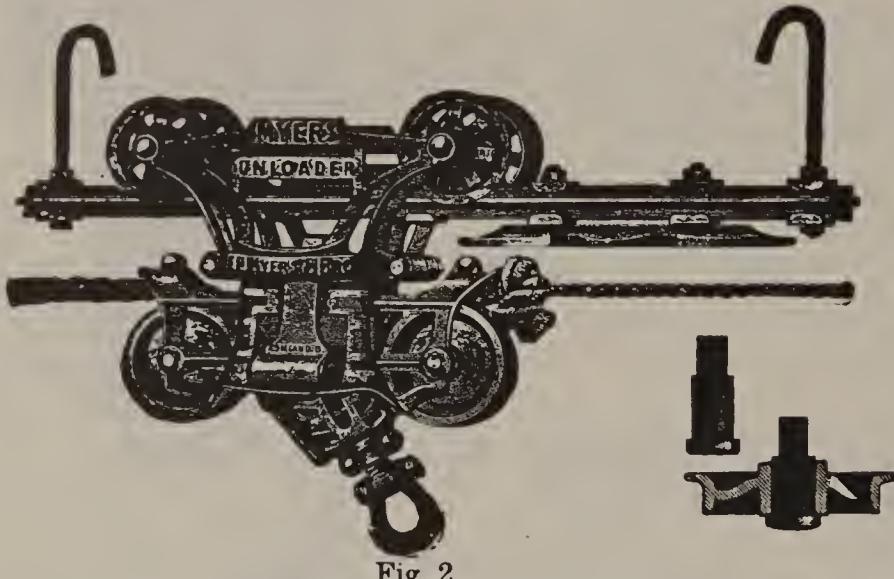


Fig. 2

Patent Double-Lock Hay Unloaders, Patent Steel Tracks, Slings, Forks, Pulleys, Etc.

We give the above view of Myers Hay Unloader to be used on Myers Double-Angle Steel Track. This is the latest and best hay carrier, and it embodies all the features of the Straight Reversible and Swivel Reversible Carrier and has many advantages over any other machine on the market. It is fitted with the Myers reliable double lock, which en-

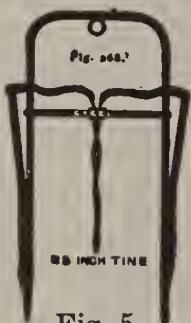


Fig. 5

REGULAR DOUBLE-HARPOON FORK

The best known Fork.

25 in.	\$3.00	31 in.	\$3.25
No. 1314 Heavy.....	3.50		



MYERS LOCK-LEVER FORK

Has 50 per cent more capacity than the regular Double Harpoon Fork on account of the cross-bar being nearer the top. Operated with one lever. Price, \$7.00

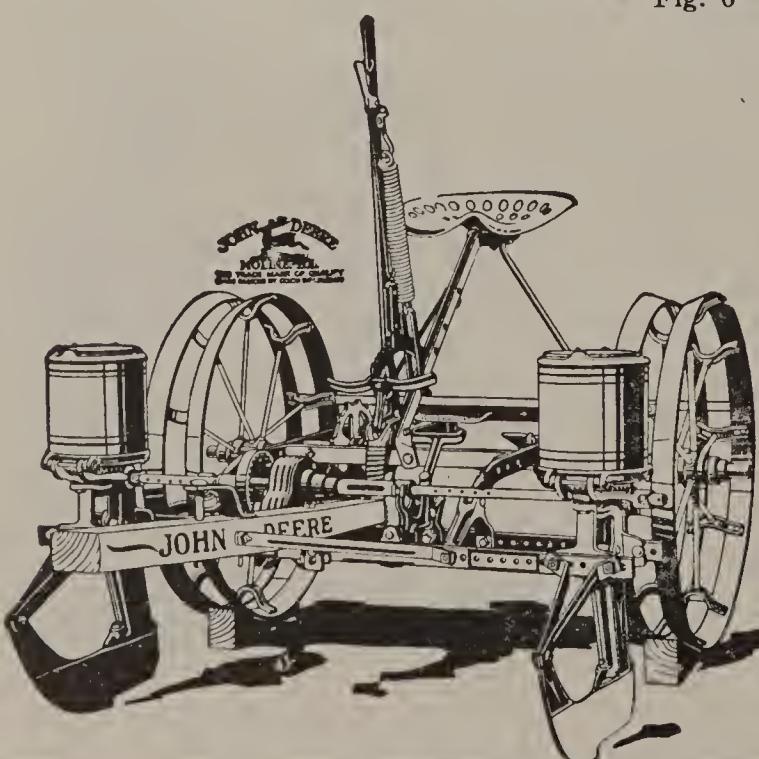


Fig. 3



Fig. 1



Fig. 4

gages the fork pulley on each side, thus insuring a perfect locking device. The construction insures a satisfactory working carrier under all conditions. The track wheels have turned steel axles, and weight is carried in center of wheel; the rope sheaves are fitted with wide hub and have longer bearings than any other make of carrier. For strength, simplicity, neatness of design and up-to-date features it is without a peer. We also offer the Myers Unloader. Price \$12.00

PULLEYS, HOOKS, ETC.

Rafter Brackets (Fig. 3), each....	\$.05
Steel Hooks (Fig. 4), each .....	.20
Floor Hook, $\frac{3}{4}$ -inch each.....	.19
Plain Maple Sheave Pulleys (Fig. 8), each.....	.80
Knot-Passing Maple Sheave Pulleys (Fig. 7), each.....	.90
Rafter Nails, per lb. ....	.10
Manila Rope, either $\frac{3}{4}$ or $\frac{5}{8}$ -inch diameter, at market prices; about 5 feet to the pound.	

Fig. 7

Fig. 8

MYERS PATENT STEEL TRACK



The style of this Track is here illustrated. It is made of two T carbon rails, very hard and stiff. Note the manner of clamping it together so that the two joints do not come opposite each other. A wrench only is needed to put this Track together. Price, per foot, 25c.

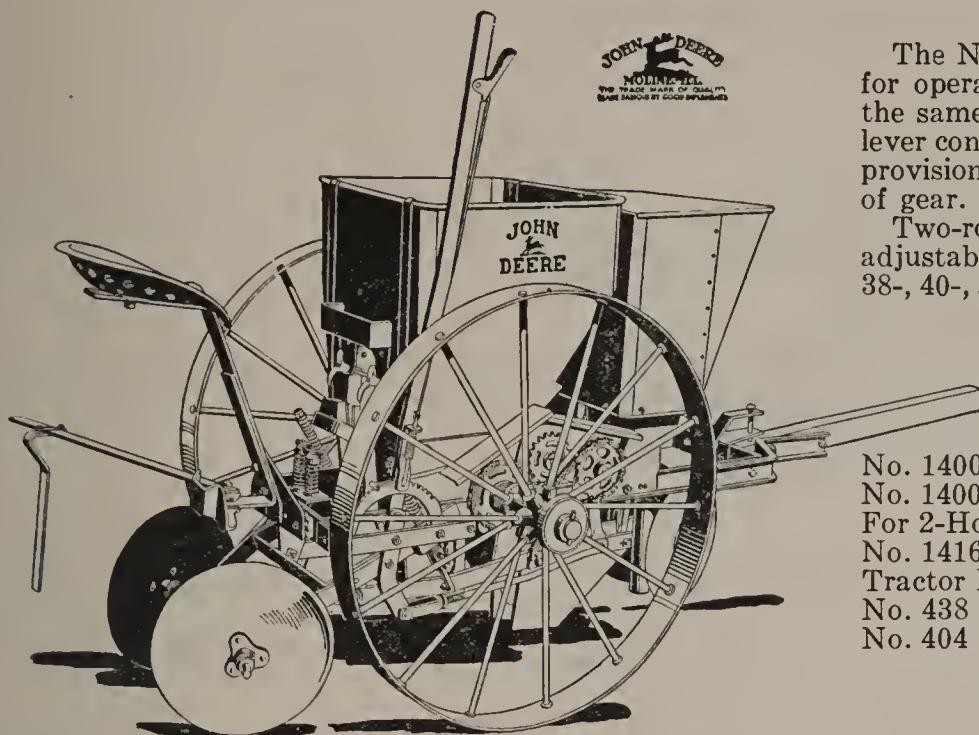
JOHN DEERE BEAN DRILL No. 919

The John Deere No. 919 Drill is the same in general construction as the No. 999 Check Rower Planter. As it is intended for drilling only, it is not equipped with check rower and valve mechanism. Simplicity of construction, accuracy and reliability in drop make this machine a superior two-row drill.

It is just as desirable to have the seed properly spaced with unfailing accuracy when drilling as it is to drop three or any other number of kernels in the hill when check-rowing. The No. 919 Drill easily satisfies the most exacting requirements.

Plain.....	\$70.00
With Fertilizer Attachment.....	97.00
Gauge Shoes as Extra—per pair.....	3.25

JOHN DEERE POTATO PLANTER



One- and Two-Row Styles

The New John Deere is made in one and two row styles for operation with horses or tractor. The two-row offers the same advantages of construction as the one-row. One lever controls the lifting and lowering of both units. Further provision is made for throwing either one or both units out of gear.

Two-row planters, are furnished in these three styles: adjustable for 30-, 32-, 34-, and 36-inch rows, and for 36-, 38-, 40-, and 42-inch rows.

Prices: ONE-ROW

With Spring Marker, 40 inch x 4 inch Wheels, Pole and Neck Yoke, less Eveners.

No. 1400.....	\$118.00
No. 1400H (with No. 1416 Fert. Attach.).....	155.00
For 2-Horse Eveners, add.....	3.00
No. 1416 Fertilizer Attach. (14-in.).....	37.50
Tractor Hitch instead of Pole and Neck Yoke.....	0.00
No. 438 Tractor Hitch as Extra.....	3.75
No. 404 Disc Marker instead of Spring Marker, add.....	2.75

IRON AGE (Improved Robbins) POTATO PLANTER

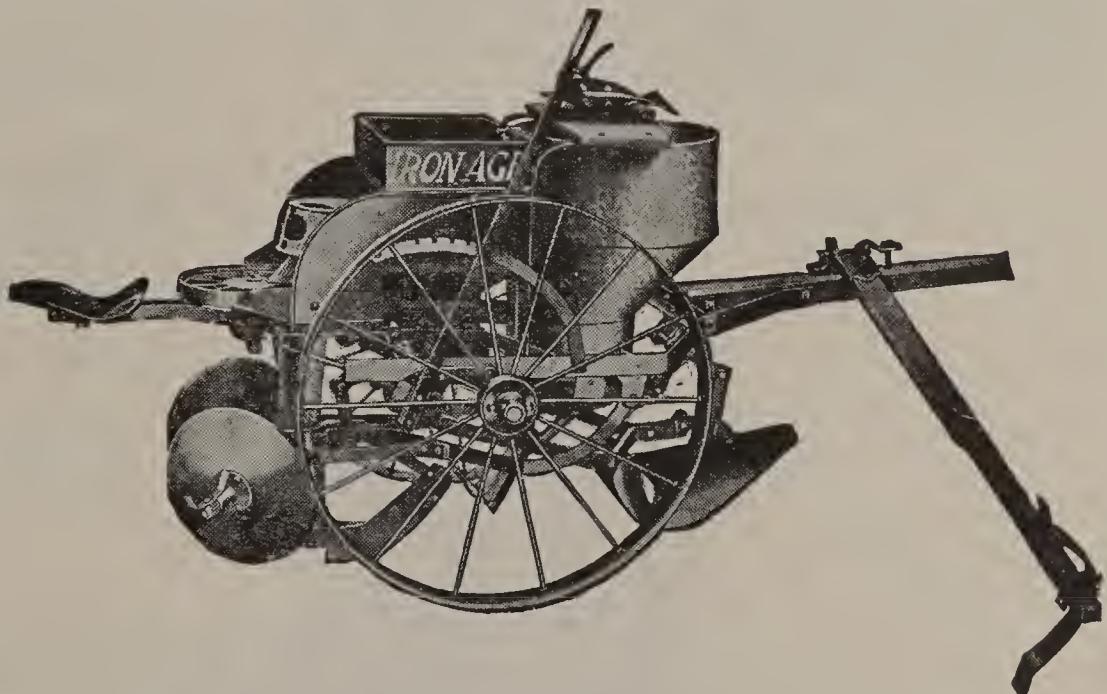
No. 422-R POTATO PLANTER WITH NEW ADJUSTABLE ELEVATOR WHEEL

This planter is known as the 100 per cent planter because it puts one seed piece, and only one, in every hill—no misses or doubles. You do not plow, harrow, plant, spray, cultivate and dig over missed spaces which bring you no profits. It also avoids the waste of fertilizer and spray material on unplanted spaces.

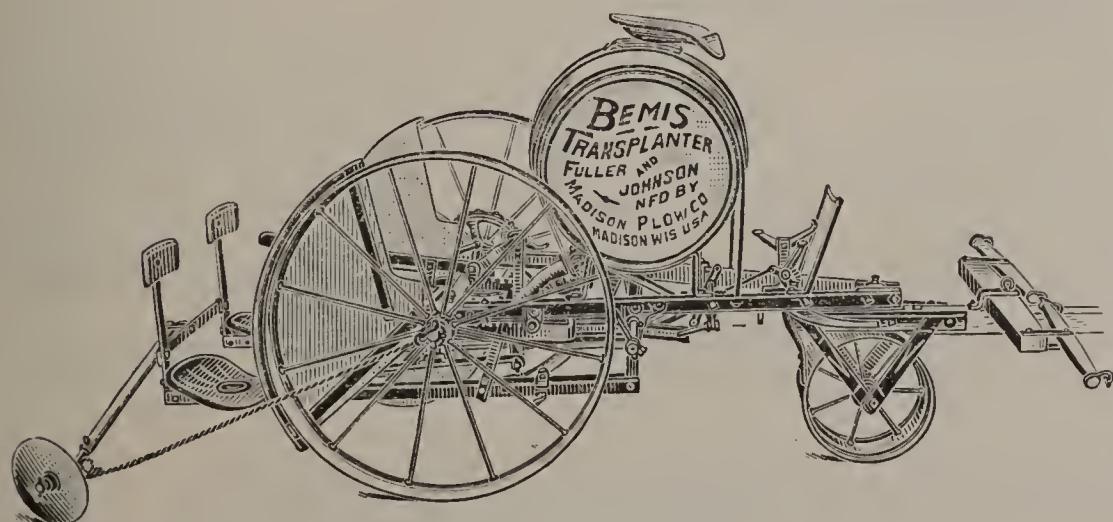
The planter is constructed almost entirely of steel. This gives decided advantages of strength, lightness and compactness over planters with cast-iron or wood frames. It is perfectly balanced, with less weight for the horses to pull. There are no heavy, bulky castings to replace because of breakage.

Making up rows, opening furrows and covering them can be done with the regular machine.

Price with Fertilizer Attachment \$165.00



BEMIS TRANSPLANTER

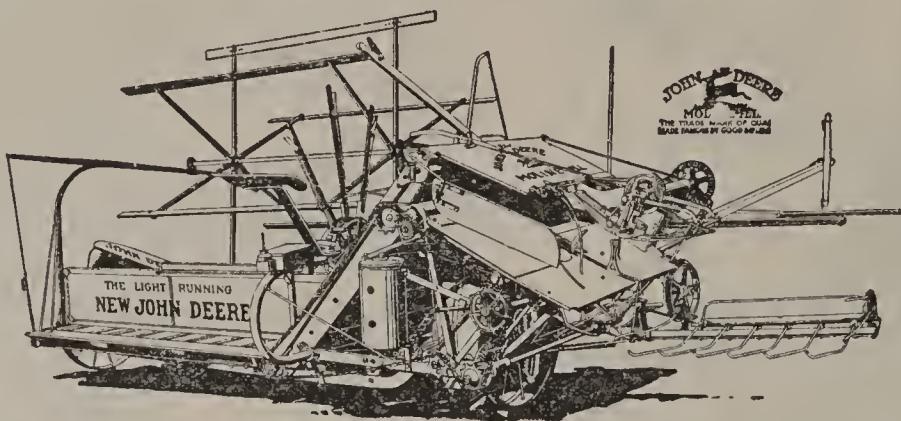


This machine has revolutionized tobacco setting, as there are now practically no large tobacco growers in the United States who set their plants by hand. It is also extensively used by market gardeners, nurserymen, etc. The supply of water can be regulated as conditions require.

Prices:

With One Wheel Foretruck and Steel Barrel.....	
No. 1 Press Plates, runner.....	\$110.00
No. 2 Press Wheel, runner.....	110.00
Fertilizer Attachment.....	20.00
2-Wheel Front Truck.....	14.00
1-Wheel Front Truck.....	12.00
2-Wheel Front Truck instead regular.....	1.75
For Marker not wanted, deduct.....	1.50
Press-Wheel Attachment as extra.....	8.50
Steel Barrel with Collar and Gasket for extras.....	8.00
Check Row Attachment.....	27.50

The Light-Running New John Deere Grain Binder With Enclosed Drive Gears



This Light-Running New John Deere Grain Binder is easier on the horses and will go through places where a machine requiring more power would choke down. Its light-running is a feature that you notice from the very start. This light-running advantage not only means less work for you and your horses, but the light-running qualities that are built into the binder reduce friction and wear, resulting in longer life for the machine and less trouble and expense for you.

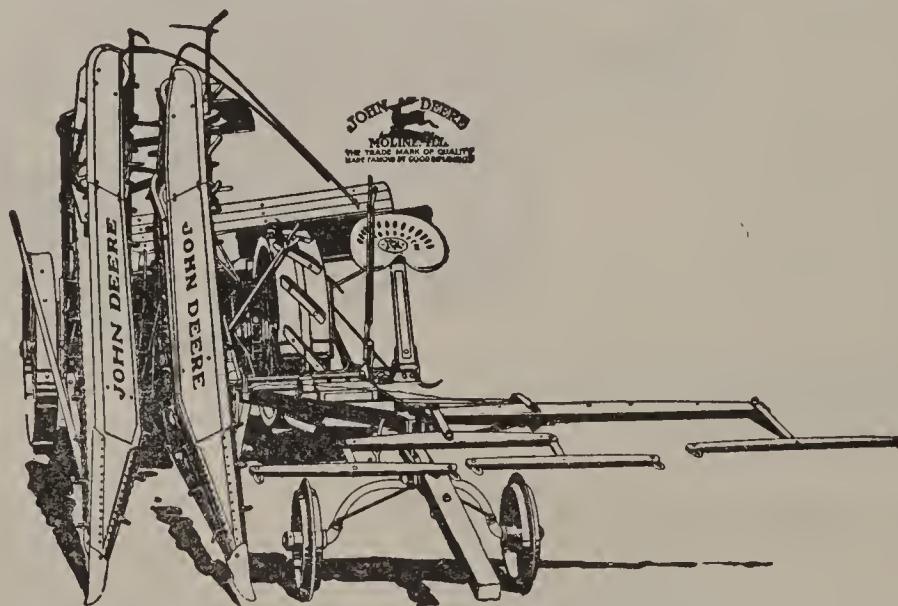
From the sickle that does the cutting on to the knotter that does the tying, and to the bundle carrier that does the dumping, you will find improvements and refinements that make the John Deere easier running, easier to keep in running order, more durable, easier to operate, and a better working binder under all field conditions.

Prices:

6-ft. with Bundle Carrier and 3-horse pole attachment.....	\$256.50
7-ft. with Bundle Carrier and 3-horse pole attachment.....	260.00
8-ft. with Bundle Carrier and 3-horse pole attachment.....	270.00
8-ft. with Bundle Carrier and Tongue Truck and 4 H. E.....	290.00
For Transport Truck, add.....	12.00
Tongue Truck when shipped with Binder instead of 3-horse pole attachment, add.....	18.50

John Deere Corn Binder

FAMOUS FOR ITS BETTER WORK UNDER DIFFICULT FIELD AND CROP CONDITIONS



The ability of the John Deere Corn Binder to do better work over a longer term of years under difficult field and crop conditions is an outstanding quality. Many users say that they cut their corn successfully with their John Deeres under conditions that keep less efficient binders in the shed.

There is no one feature responsible for this better performance. It is the result of years of development resulting in improvements in design to meet the unusual situations. The John Deere has an unusual amount of traction which is very important. This provides ample power to insure positive and continuous passage of the corn from the time it enters the gatherers until the bundles are discharged free from the path of the horses.

Positive Delivery of Stalks to Binding Attachment

Lodged and tangled corn is readily picked up by the gatherers. The gatherers are wide at the points and can be accurately set at any desired distance from the ground.

As the corn enters the gatherers, four chains carry the corn to the binding attachment. In addition, two top gather chains with long lugs help to keep the tops straight and assist in forming well-shaped bundles. The two steel throat springs, adjusting themselves to any volume of corn, hold the corn into the chains.

The butt chain is equipped with long, wide folding lugs that extend across the throat of the machine and prevent the butt end of the stalks from lagging.

This combination carries the corn in the easiest and most positive manner to the binding attachment, with minimum loss of ears.

Prices:

Corn Binder with Pole Attachment, 2-HE	\$250.00
Corn Binder with Pole Attachment, 3-HE	253.00
Corn Binder with Tongue Truck, 3-HE	270.00
Regular Power Bundle Carrier with Binder, add.....	16.00

JOHN DEERE WAGON—BUILT UP TO A GUARANTEE

Heavy Malleable Fifth Wheel Bolster Plate with Corrugated Coupling. Skeins, extra heavy, of Special Sand and Dustproof Pattern. Selected Hickory Axles; Extended Circle Irons; Square Wood Front Hounds; Full Clipped Gears; Full Size Reach. Bolster Stakes, 8 or 13 inch over all, with Rings; Heavy Malleable Pole Housing on Slip Tongue Wagons; Deep Hind Bolster; Singletree, Full Strap and Hook Pattern; Heavy Iron Reach Box

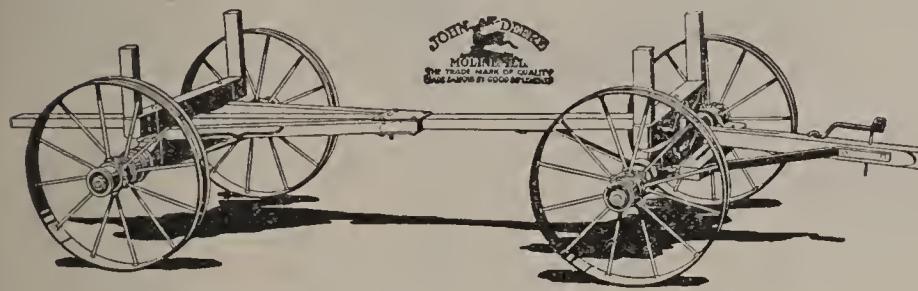
When you buy a John Deere Wagon you get more than merely an assembled product made to sell. You buy high-grade materials. You buy the skill of designers and builders who have given their work a lifetime of study. You buy many years of hauling service.

The John Deere organization controls the quality of every piece of material that goes into a John Deere Wagon. All parts are made in their own factory, under careful supervision and rigid inspection. The John Deere trademark on a wagon is assurance that the materials under the paint,

as well as the paint itself, are of good quality.

The quality to be found in a John Deere Wagon is representative of the quality that distinguishes the John Deere Plows and other equipment—quality that has enabled the John Deere organization to grow and prosper through nearly a century.

You will take pride in your purchase of a John Deere Wagon, not only in its appearance, but also in its strength, durability and light-running qualities.

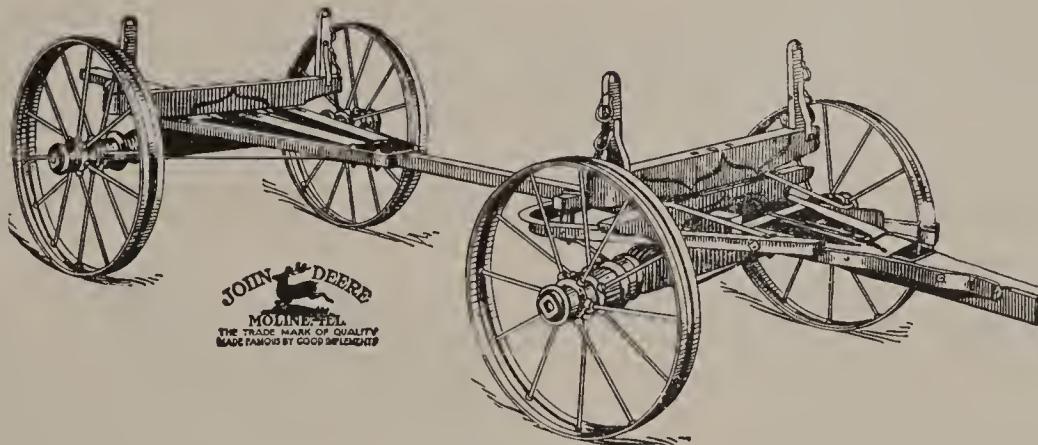


Prices:

With Steel Wheels—28 inches front, 30 inches rear, 4"x $\frac{3}{8}$ " Grooved Tires	\$50.00
With Wood Wheels—30 inches front, 36 inches rear, 3"x $\frac{3}{8}$ " Tires	68.50
With Wood Wheels—30 inches front, 36 inches rear, 4"x $\frac{3}{8}$ " Tires	77.50
If wanted with double trees and neck yoke add to price, \$5.00. Brake extra, \$8.50.	

No. 100 CHIEF WOOD OR STEEL WHEEL FARM TRUCK

The material is of good quality, hard wood. Gears are rigidly braced and bolted. The hind hounds are of long, straight grain, well braced to rear axle. The reach plate is of heavy steel, full width. Full size reach. Removable bolster stakes fitted into steel pockets. Bolsters, extra heavy, with full-width bolster and axle plate. The skeins are of heavy pattern, individually set with correct pitch and gather. Size of skeins 3 $\frac{1}{4}$ inches by 10 inches. The pole is heavily braced to cross bar and securely bolted to front axle.



RELIANCE FARM TRUCK

WITH WOOD OR STEEL WHEELS

Made from selected first-class hard wood. Hickory axles. The gears are rigidly braced, fully clipped over bolster and axle. Heavy round truss rods. The front hound is of heavy angle steel, reinforced with wide oak filler extending from point of hound to rear of axle and sandboard. Bolsters ironed full length on top and around ends; bolster stakes, 11 inches over all, farm wagon style, with rings and side braces. Heavy drop pole, with farm wagon style of pole cap. Skein, heavy truss pattern, carefully set with correct pitch. Size of skein 3 $\frac{1}{4}$ inches by 10 inches.

Prices:

(With Drop Pole)

With Steel Wheels—28 inches front, 32 inches rear, 4"x $\frac{3}{8}$ " Grooved Tires	\$60.00
With Wood Wheels—30 inches front, 36 inches rear, 3"x $\frac{3}{8}$ " Tires	77.50
With Wood Wheels—30 inches front, 36 inches rear, 4"x $\frac{3}{8}$ " Tires	85.00
If wanted with double trees and neck yoke, add to price \$5.00. For stiff pole, add \$5.00. Brake, extra, \$8.50.	

FARM CARTS

Built from good, well seasoned hard wood. Nicely painted and finished. Steel Axle.

Number	Size of Axle	Size of Spoke	Size of Tires	Diameter of Wheels	Diameter of Box, Inside Measure					Price
					Length	Width	Depth	Top Box	Capacity	
1	1 $\frac{5}{8}$ in.	2 $\frac{1}{8}$ in.	3x $\frac{1}{2}$ in.	4ft. 10in.	5ft. 6in.	3ft. 1in.	12 in.	4 in.	1200 lbs.	\$87.50
2	1 $\frac{5}{8}$ in.	2 $\frac{1}{8}$ in.	4x $\frac{1}{2}$ in.	4ft. 10in.	5ft. 6in.	3ft. 1in.	12 in.	4 in.	1200 lbs.	92.50
3	1 $\frac{3}{4}$ in.	2 $\frac{1}{4}$ in.	3x $\frac{1}{2}$ in.	4ft. 10in.	5ft. 6in.	3ft. 1in.	12 in.	4 in.	1500 lbs.	95.00
4	1 $\frac{3}{4}$ in.	2 $\frac{1}{4}$ in.	4x $\frac{1}{2}$ in.	4ft. 10in.	5ft. 6in.	3ft. 1in.	12 in.	4 in.	1500 lbs.	100.00

Best by Every Test

THE ENCLOSED ENGINE THAT OILS ITSELF

The John Deere farm engine is far ahead of its field in design and construction—it places the farm engine on a plane with other types of modern power machinery.

Users say, "John Deere is the greatest advancement ever made in farm engine building." It is a fact that no other farm engine has ever been designed with so many distinctive advantages.

The complete enclosure of its operating parts and its automatic oiling system, while outstanding features, are but two of the many improvements that make it a profitable investment for every farmer.

Take the time to read the following facts about this farm engine. You will recognize at once the reasons for its great success.

All Vital Parts Completely Enclosed

All the important parts—crankshaft bearings, connecting rod bearings, cylinder, governor, timing gears, etc.—are completely protected within a dust-proof housing.

There is no more opportunity for sand and other foreign matter to get into the vital parts of the John Deere than there is for such particles to get into the motor of your car.

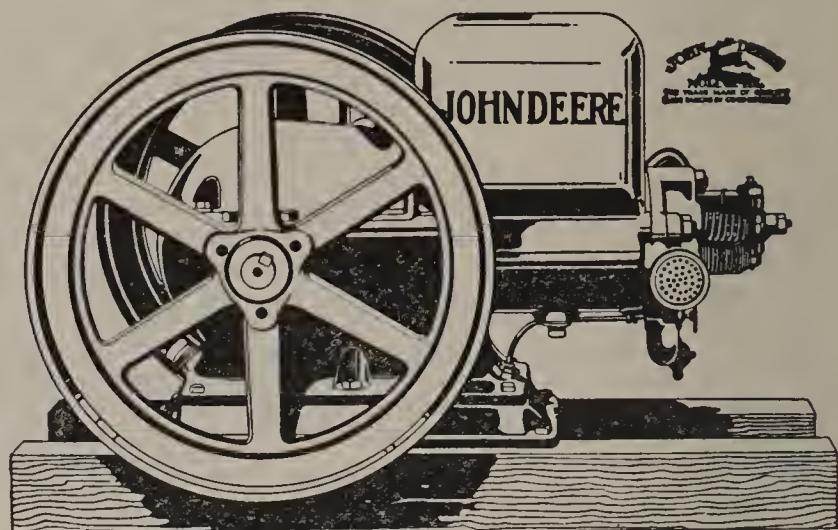
Longer life, less repair expense and better service necessarily result from this advanced design.

Governor Accurately Controls Speed

The John Deere operates on the hit-and-miss principle. By merely turning a hand nut located on the outside of crank case, the speed of the engine can be varied from one-half normal speed to ten per cent above normal speed without stopping engine. The vital parts of the governor and the hook-up mechanism are hardened to resist wear. The governor is entirely enclosed within the dust-proof case and operates in a bath of oil.

Engine Operates Without Vibration

Smoothness of running is a feature that every user appreciates in the John Deere. Because the operating parts are carefully balanced, this engine runs without vibration at any speed.



SIZES AND SPECIFICATIONS

H. P. Rated	Normal Speed R.P.M.	Bore, Inches	Stroke, Inches	Standard Pulley Size, Inches Diameter, Face
1 1/2	600	3 1/2	4 1/2	4 3/4 x 4
3	550	4 1/2	5 1/2	6 x 5
6	500	6	7	12 x 6

Over-all Dimensions			Approximate Shipping Weight	PRICE
Length	Width	Height	Lbs.	
33"	21"	20"	226	\$72.00
39"	25"	23"	338	105.00
48"	33"	30"	698	180.00

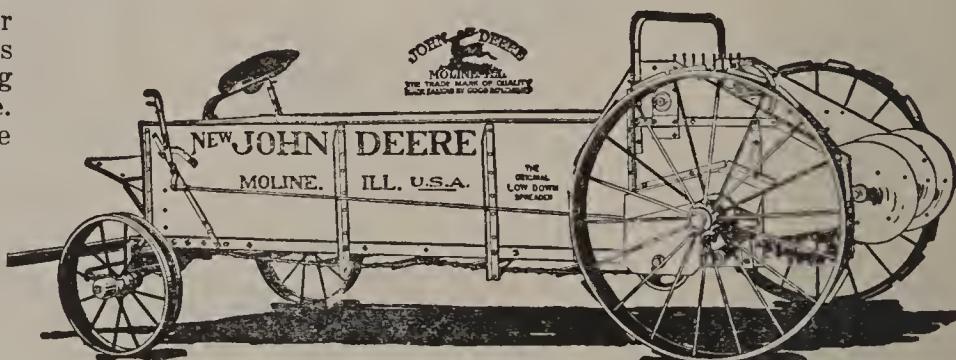
NEW JOHN DEERE (MODEL E) MANURE SPREADER

From the all-steel tongue to the wide-spread beater which won't wrap, the new John Deere Model E gives you everything you want in a spreader. Nothing has been spared in making it a better all-around value. A spreader that will give more years of profitable service on your farm.

9 ADVANCED FEATURES

WHICH INSURE EASIER LOADING—EASIER PULLING BETTER WORK—LONGER LIFE

1. WIDE-SPREAD BEATER: Reduces wrapping, runs easier and smoother, and gives a wider and more even spread. Box scrapers keep sides clean.
2. BEATER ON THE AXLE: Permits higher drive wheels for easier pulling—a lower box for easier loading—makes possible fewer moving parts and sturdier construction. Beaters are close to the ground—winds do not cause drifting of manure.
3. LARGE, FOUR-BAR UPPER BEATER: Reduces wrapping, lightens draft and does a better job of shredding manure.
4. HARDENED STEEL ROLLER CHAIN DRIVE: More than twice as strong as ordinary drive chain—does not wear out sprockets, lasts longer and runs easier.
5. HIGH, WIDE-TIRED REAR WHEELS: Give same light-draft advantage that a high-wheeled wagon has over a low-wheeled wagon.
6. STRONGER, BETTER BOX: Finest quality wood, creosoted and painted to resist manure acids and the weather. Well braced to stand up under years of heavy service. Stands heavy twisting strains without bending out of shape.

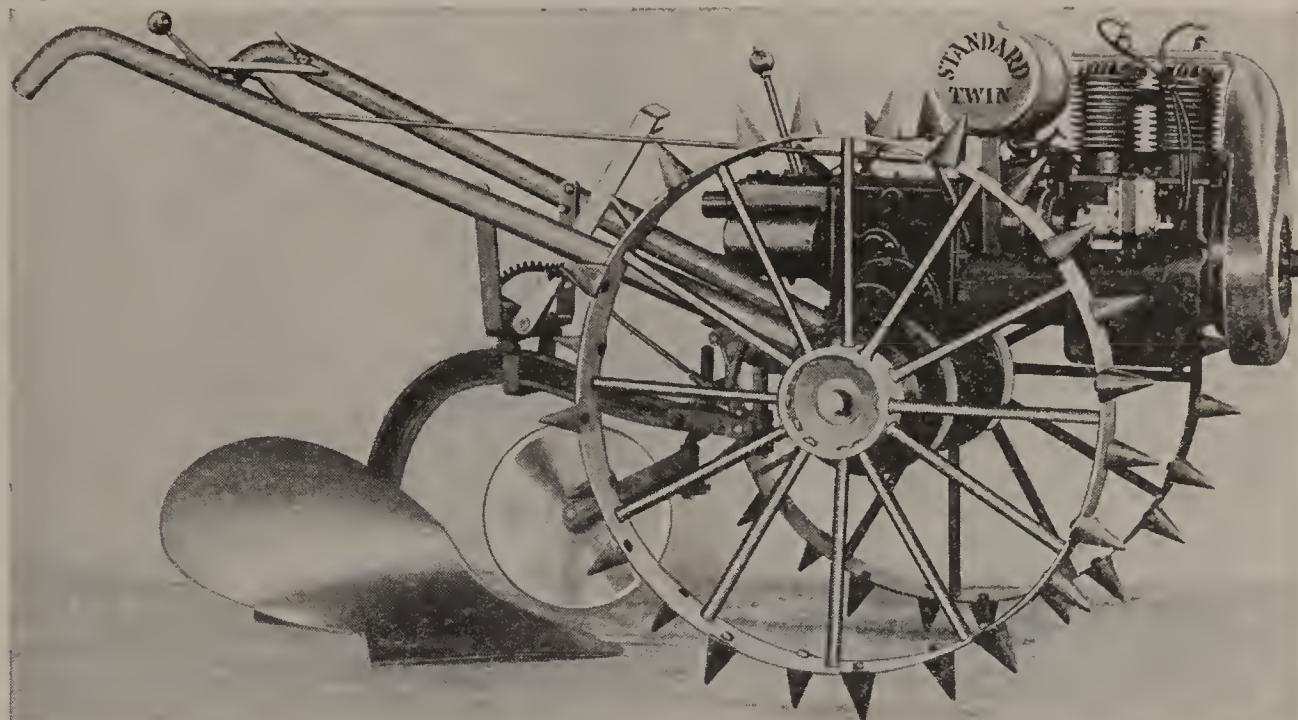


7. FRONT END RIDES ON CUSHION SPRINGS: Springs absorb field and road shocks—add to comfort of driver and life to spreader.
8. NEW, EASY, SHORT TURN: Easy to handle in sheds and field lots.
9. STEEL POLE AND EVENERS: Will not break—eliminate costly replacements.

PRICES:

Model "E" with 2-horse eveners and neck yoke	\$180.00
Model "E" with 2-horse eveners and end gate	190.00
Model "E" with 3-horse eveners and neck yoke	182.50
Model "E" with 3-horse eveners and end gate	192.50
Model "E" with tractor hitch	180.00
Model "E" with tractor hitch and end gate	190.00
No. 1389 End Gate Attachment as extra	10.00
No. 1484 Lime Sower Attachment	15.75
No. 1391 Tractor Hitch Deere 4-wheel standard tread tractor	8.00
No. 1473 Tractor Hitch for Deere Models "A," "B" and wide-tread tractors	8.25
No. 1094 Beater Hood Attachment	3.25
No. 1485 Ratchet Foot Brake	11.00

STANDARD GARDEN TRACTOR



The illustration shows the "TWIN" with plowing attachment.

In meeting the need for compact power farming equipment, Standard now builds three sizes of tractors—the TWIN, the MONARCH and the WALSH—and we believe these latest Standard Models cover the complete field for the garden and small-farm tractor.

The New Standard "TWIN," with its 2 cylinders, 2 speeds and 5 H. P. engine, is built for the man with the larger acreage or extra severe conditions, who needs that excess capacity which only 2-cylinder power can give. It brings to the small tractor field that surplus of power and strength and smooth operation which have long been available to the big farmer—and in so doing marks a definite forward step in the progress of power on the small farm.

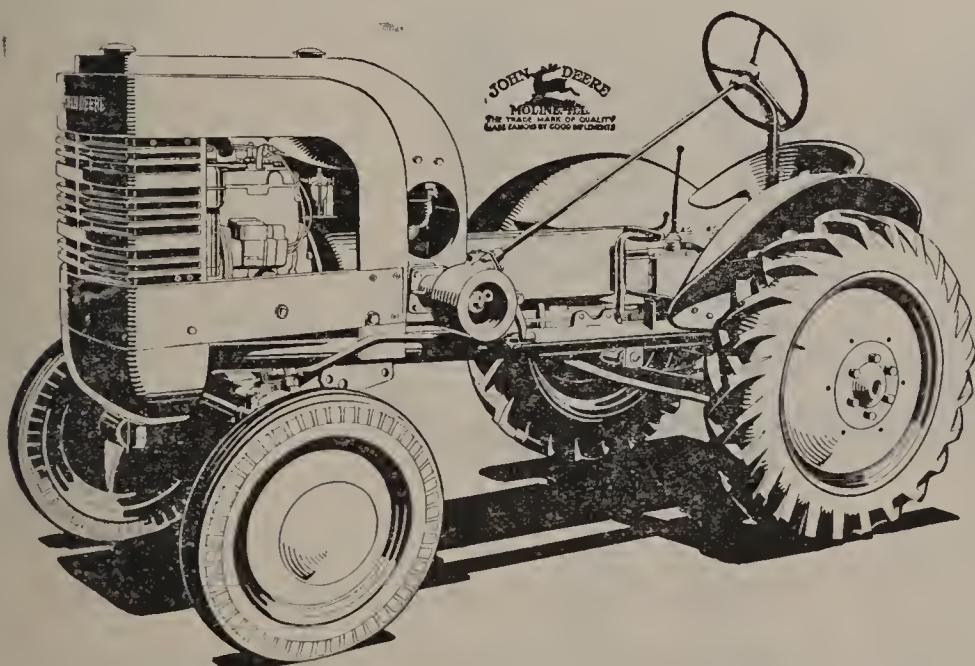
Of the Standard "MONARCH" little need be said. The

acclaim of thousands of friends bespeaks its merit more truly than can any words. Powered with the Standard-built 3½-H. P., 1-cylinder, heavy duty engine, the "MONARCH" Models have for years blazed the trail, in bringing the benefits and economies of modern power to the intensive grower. Tried and proved by thousands, from one end of the country to the other and in almost every nation of the world, the Standard "MONARCHS" stand secure on the reputation they themselves have built.

In the lighter "WALSH" Model, Standard presents a latest development of the well-known Walsh Tractor—a sturdy, low-cost machine that has gained wide approval from coast to coast.

(Descriptive catalogue and prices mailed upon request.)

JOHN DEERE MODEL "L" TRACTOR



CAPACITY

This tractor will pull loads equal to those pulled by a two-horse team. For instance, it will pull a plow with a 12" bottom, 7" deep, in average plowing conditions in second gear (3¾ Miles per hour) and will handle all other jobs requiring a similar amount of power. It is built to surface cultivate a strip 80" wide, handling, for instance, four 20" rows or similar row combinations requiring an 80" cultivation.

This tractor is built primarily to meet the requirements of the small general farmer, the vegetable grower, and the flower grower. It provides them with a light, economical power unit. In addition to the above, the tractor will be used in the care of public parks, golf courses, estates, and the mowing of grass and weeds on the public highways. It will do the plowing, seed bed preparing, planting and cultivating on small-sized general farms. It will do all farm work that is ordinarily done with a team of horses and will eliminate such operations as hand planting and hand cultivating on specialized farms.

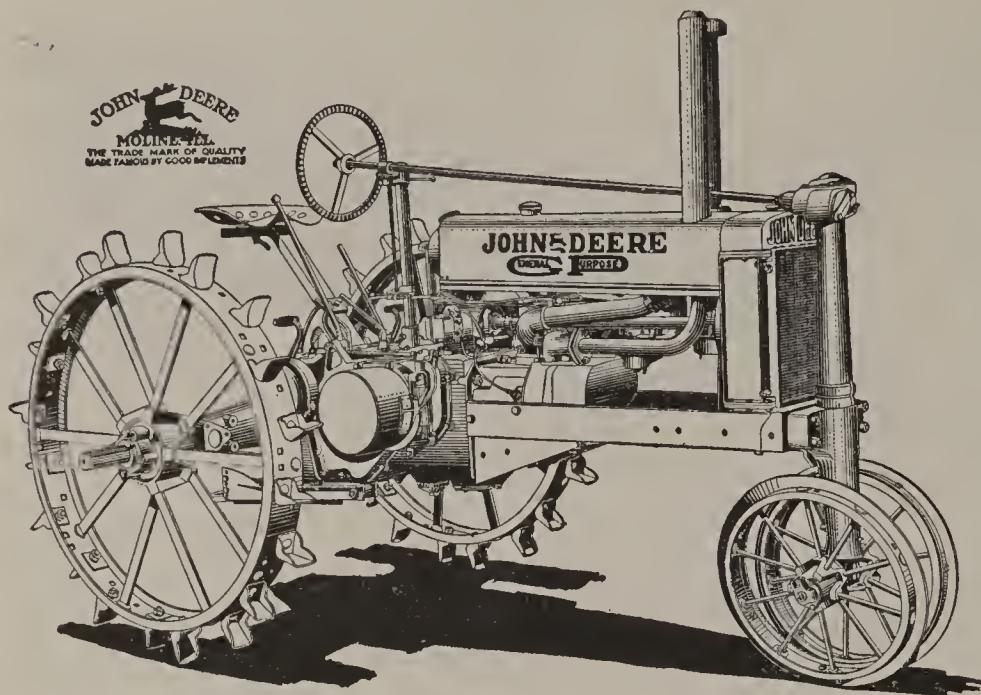
An outstanding feature of the John Deere Model "L" Tractor is its stability and Power for its size and weight. Exhaustive field tests on Farms in all sections have proved the efficiency of the Model "L" in handling all of the jobs of seed bed preparation as well as planting and cultivating.

It will pull a three-unit lawn mower with a total cutting width of 84". It can be used in place of a team for pulling a manure spreader.

It is to be remembered that while pulling loads ordinarily pulled with a team, the tractor will turn out much more work in a day than a team of horses because of the constant speed at which it works.

Write for Price

JOHN DEERE MODEL B GENERAL PURPOSE TRACTOR



Specifications

Capacity: One 16-inch or two 10-inch plows, 2-row planter or 2-row cultivator.

Speed: First, $2\frac{1}{4}$; second, $3\frac{1}{3}$; third, $4\frac{3}{4}$; fourth, $6\frac{3}{4}$; reverse, $3\frac{3}{4}$ M. P. H.

Crankshaft: Main bearings, $2\frac{1}{4}$ inches by $2\frac{1}{2}$ inches. Connecting rod bearings, $2\frac{1}{4}$ inches by 2 inches.

Lubrication: Full force feed, pressure-gear pump with oil filter.

Carburetor: Double-jet type.

Air Cleaner: Wash down type with stack.

Cooling: Tubular radiator, thermo-siphon.

Air Fan: Gear driven, no belts; R. P. M. 1920; diameter $13\frac{1}{2}$ inches.

Governor: Enclosed fly-ball type.

Clutch: Two 8-inch dry disks locking in and out.

Belt Pulley: $10\frac{5}{8}$ -inch diameter; 6-inch face; 1150 R.P.M.

Belt Speed: Feet per minute, 3200.

Transmission: Spur gear, selective type, four speeds forward, one speed reverse.

Gears: Forged steel cut and heat treated.

Fuel Tank Capacity: 12 gallon gas.

Water Capacity: $5\frac{1}{2}$ gallons.

Over-All Length: 122 inches.

Width: 85 inches.

Height at Top of Radiator: 56 inches.

Turning Radius: 8 feet.

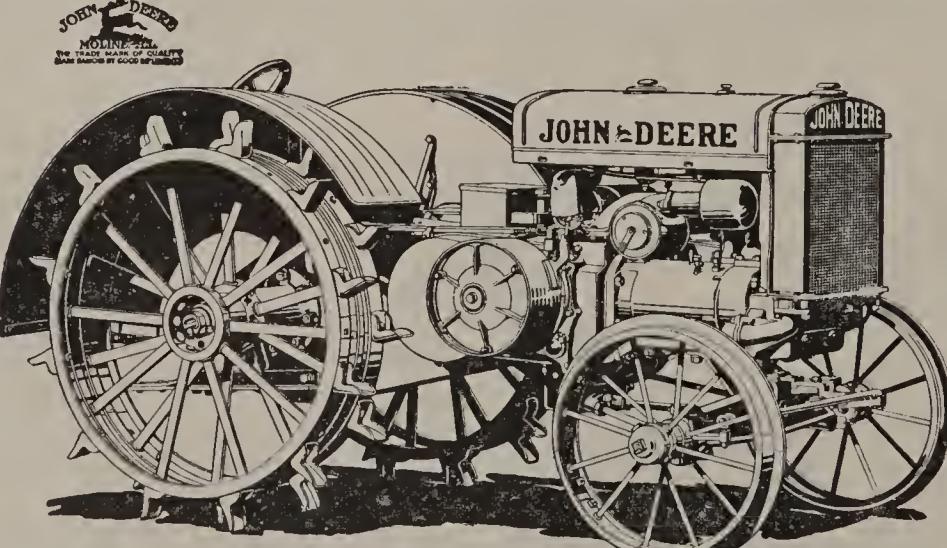
Wheel Base: 80 inches.

Engine Bore and Stroke: $4\frac{1}{4}$ inches by $5\frac{1}{4}$ inches.

Weight: 2,455 pounds.

WRITE FOR PRICE

JOHN DEERE FARM TRACTOR



The John Deere Farm Tractor gives you all of the important features that go towards making power farming practical and profitable.

It has all-around farm adaptability; it has ample power to operate drawbar and belt machines of economical size; it is extremely simple, easy to understand and operate; its fewer but sturdier parts are fully enclosed and operate in oil—but for long life; it is easy to get at all parts and easy to make adjustments or repairs; its operating and maintenance costs are surprisingly low. This tractor carries the John Deere name which means uniformly high quality to all who are familiar with John Deere products.

MADE IN TWO SIZES—10-27 and 15-27

SEND FOR SPECIAL CATALOGUE AND

PRICES

LETZ

ROUGHAGE MILLS and SILO FILLERS

The No. 130 Letz may be equipped with 12-foot wagon box tower for feed collector to discharge chopped or ground feed into trucks or wagons. With this equipment, it is known as the No. 131. The No. 131 may be mounted on all-steel truck.

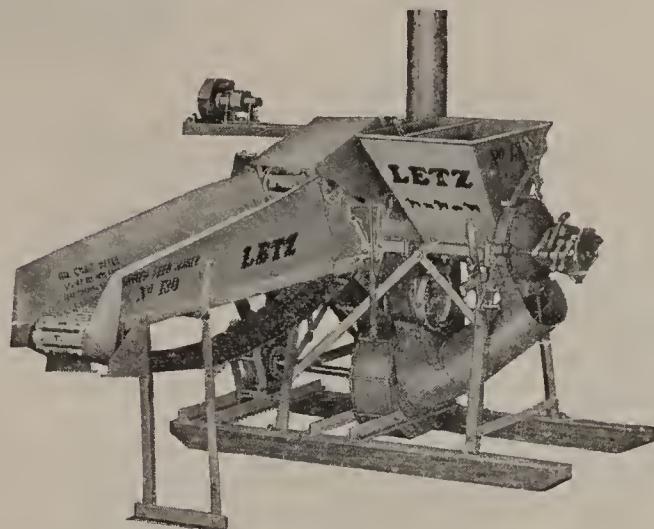
The No. 130 Letz may be supplied with sacking tower, feed collector, and double spout for sacking feeds. With this equipment, it is known as the No. 132.

To make up your own individual barn installation, the No. 130 Letz is supplied with exhaust fan only, as illustrated here, and with 8 feet of pipe and a long sweep elbow. With this equipment it is known as the No. 133.

See Specifications on Page 94.

Prices:

No. 130.....	\$245.00
No. 131.....	285.50
No. 132.....	277.00
No. 133.....	252.00



No. 130 Letz

LETZ HAND AND SMALL POWER GRINDERS

While the No. 4 Grinder is a hand power only, the No. 04 is equipped with both hand crank and pulley, for operation by light power, making it the ideal combination for the small pumping engine or lighting plant motor.

For the poultry fancier or farmer feeding only a few animals, either of the above grinders offers a cheap, but most efficient way of preparing ground or cracked feed.

No. 4 Hand Power Grinder
Price \$5.50

Size of plates..... 4"
Diameter of flywheel..... 16"
Height over all..... 18"
Weight, crated..... 30 lbs.
Capacity per hour

1 to 3 bushels

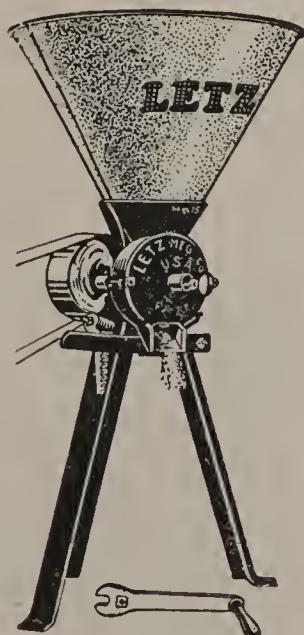


No. 4—Hand Power

No. 04 Hand and Belt Power Grinder Price \$7.00

Size of plates..... 4"
Power required..... $\frac{1}{2}$ to $1\frac{1}{2}$ H.P.
Pulley, diameter..... 4"
Weight, crated..... 35 lbs.
Capacity per hour

2 to 6 bushels



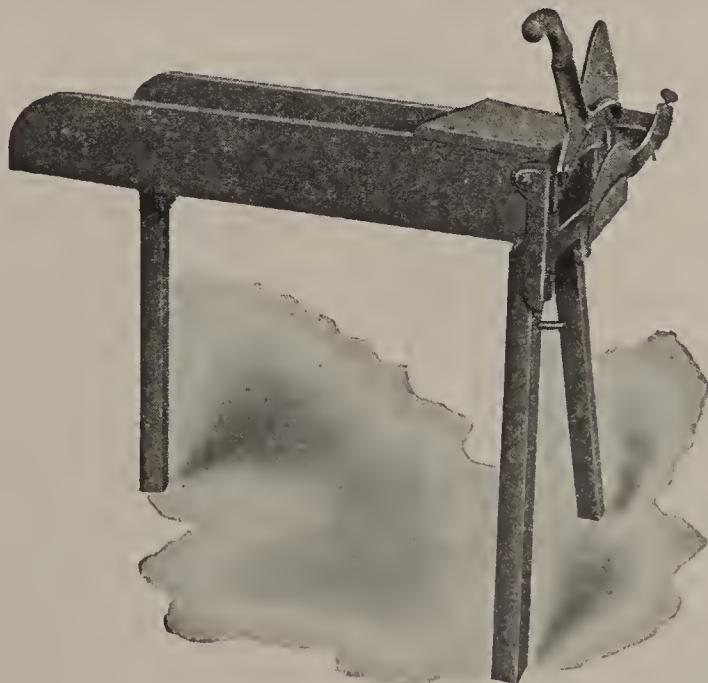
No. 04—Hand and Belt Power

LETZ

GRINDERS

Make Money for You!

BUCH'S HAND LEVER FEED CUTTER



This cutter is simple, durable, handsome and low priced. It has an 11-inch tempered curved knife, which can be adjusted to take up all wear, thus insuring a perfect shear cut at all times. Has gauge-plate adjustable to any length of cut up to 3 inches. Cuts either green or dry fodder.

Price, \$7.50

LETZ

THE MODERN, HIGH-CAPACITY, HEAVY-DUTY HOPPER GRINDER

LETZ No. 110

Built for a lifetime of better grinding service. Built to uniformly granulate feeds. To make excellent cracked corn, wheat or barley. To pulverize small grains! To grind feeds all coarse, all medium, or all fine. To grind snapped corn with all the shuck! To grind sorghum heads with stems up to 4" long. To grind soft corn, wet enough to wring water from!

10" plates are regular, for 10-20 tractor. By using 8" plates it is operated by small engines or motors, 5 to 7½ h. p.

Because it cuts the feed, because it forcefeeds, it has two to three times the capacity of the ordinary 10" grinder. It keeps one man busy filling the hopper.

Price.....\$73.00

LETZ No. 220

Is the larger size, heavy-duty Letz with 10½" "zig-zag" shearing plates, for 15-27 tractors or similar power.

Like its No. 110 companion, it grinds ear corn, snapped corn with shuck, maize heads and small grain, better, faster and cheaper!

Improved design produces a sturdy and compact grinder of surpassing ability. No. 220 Letz has 1-11/16" alloy-steel, main shaft with 6" wide, overhanging main bearing, and the amazing Letz thrust bearing, all for heavy duty operation by any size power.

No. 220 delivers new high capacity—new, lower operating costs—new dependability—new value. Price.....\$85 50

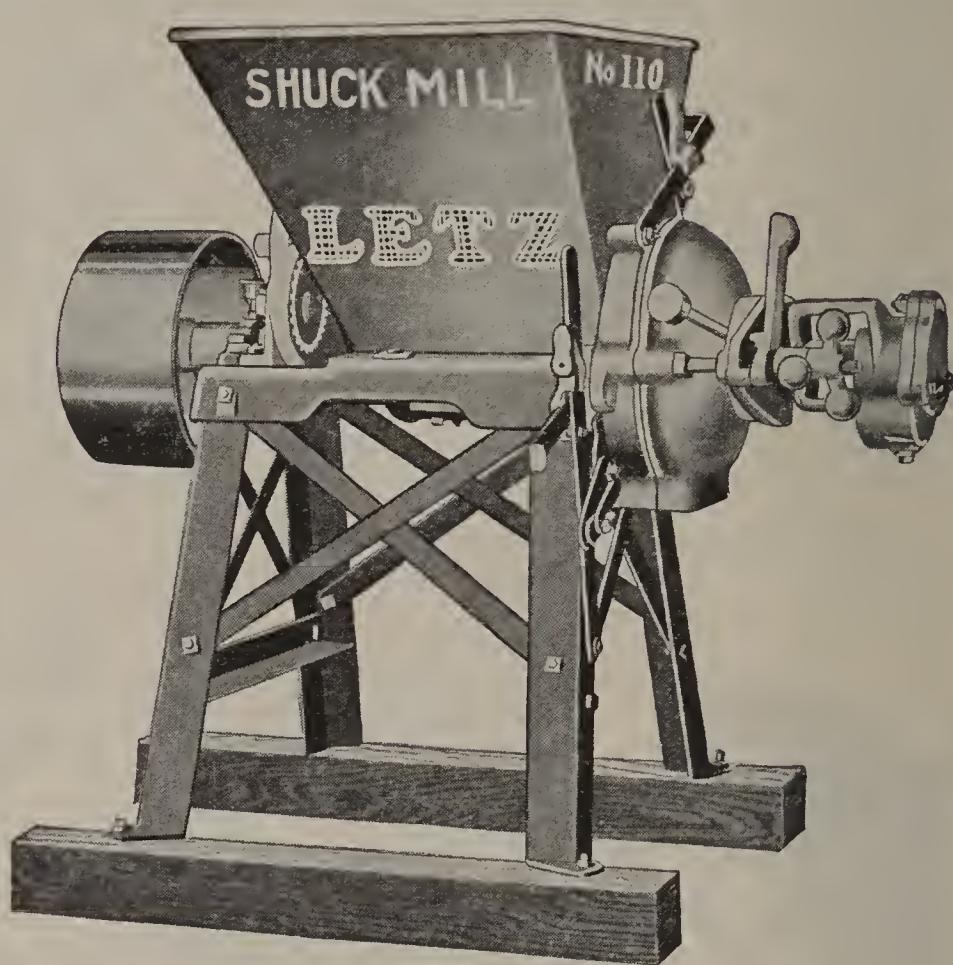


Table of Capacities, Nos. 220 and 110 Series

	No. 220 LETZ Cap. in lbs. per hr.	No. 110 LETZ Cap. in lbs. per hr.
15-20 h.p. speed of mill 600-750 r.p.m.	25-30 h.p. speed of mill 800-850 r.p.m.	10-15 h.p. speed of mill 600-700 r.p.m.
Snapped corn.....	4500-7000	2500-4000
*Kafir corn hds.	6000-10000	4500-7000
All small grain....	4000-5000	3500-5000
	2500-3000	2000-3000
	2500-4000	2000-3000

*Kafir corn must be headed closely, with not more than 4" of stem. Not for machine headed kafir corn.

Specifications for Nos. 220 and 110 Series

No. 222 LETZ WITH EXHAUST FAN AND SACKING TOWER EQUIPMENT



Letz heavy-duty grinders are considered incomplete without the ball-bearing exhaust fan. The fan aerates, cools and delivers the ground feed. It mixes feeds, saves handling and rehandling work, stores the ground feed away more safely.

With exhaust fan you can dispose of the ground feed as you wish. You can add a sacking tower, swinging wagon box tower, or build up a feed

distribution installation of your own, at low cost, by adding pipe, elbows, valves and branch lines to make the work of the fan still more valuable.

Blow your ground feed into overhead storage bins, into self-feeders, or to 3, 4, 5 or more storage locations within 100 feet radius from the grinder.

This is the way to meet the feed handling job, to cut costs and to add convenience! Why not make this installation now!

Price.....\$173.00

	No. 220 LETZ	No. 110 LETZ
Grinding plates.....	10½" dia.	10" dia.
Drive shaft.....	1-11/16" dia.	1-7/16" dia.
Pulleys.....	All 8" face, 8, 10, 12, 14, 16, 18" dia.	All 6" face, 8, 10, 12, 14, 16, 18" dia.
Speed recommended	600 to 850 r.p.m.	600 to 850 r.p.m.
Gross weight, plain grinder.....	464 lbs.	400 lbs.
Gross weight with fan and sacking tower equipment.....	741 lbs.	685 lbs.
Gross weight with fan and wagon box tower equipment	787 lbs.	731 lbs.
Gross weight with exhaust fan.....	632 lbs.	576 lbs.

Write For Special Catalogue and Prices

ROUGHAGE MILLS

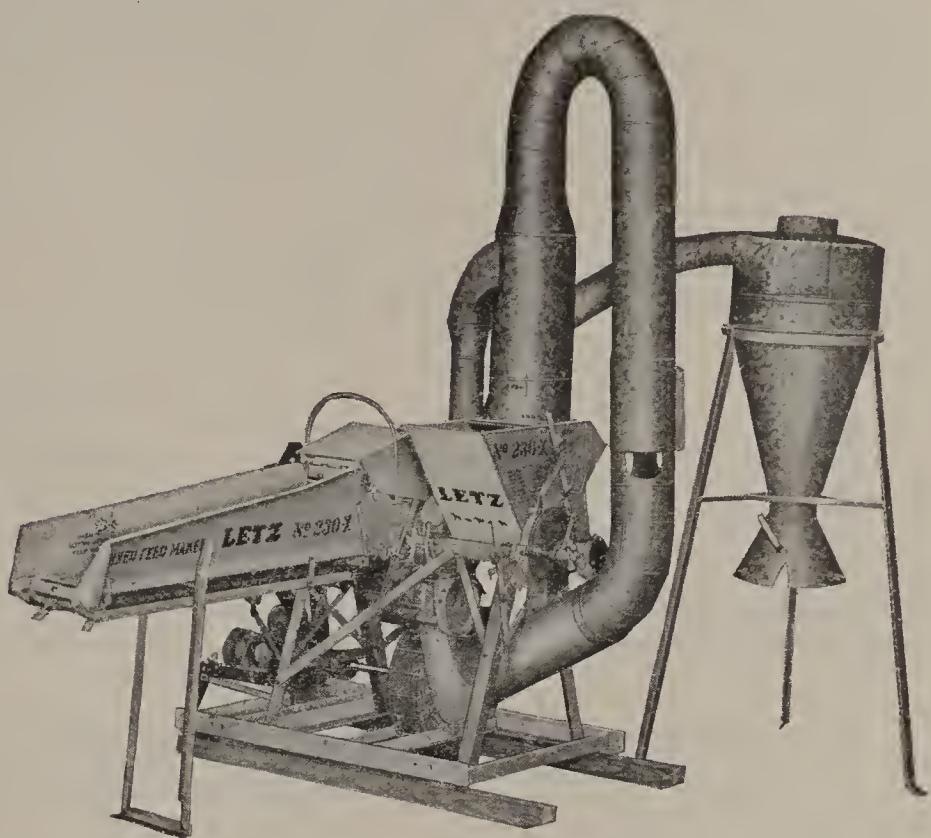
LETZ

HAY CHOPPERS

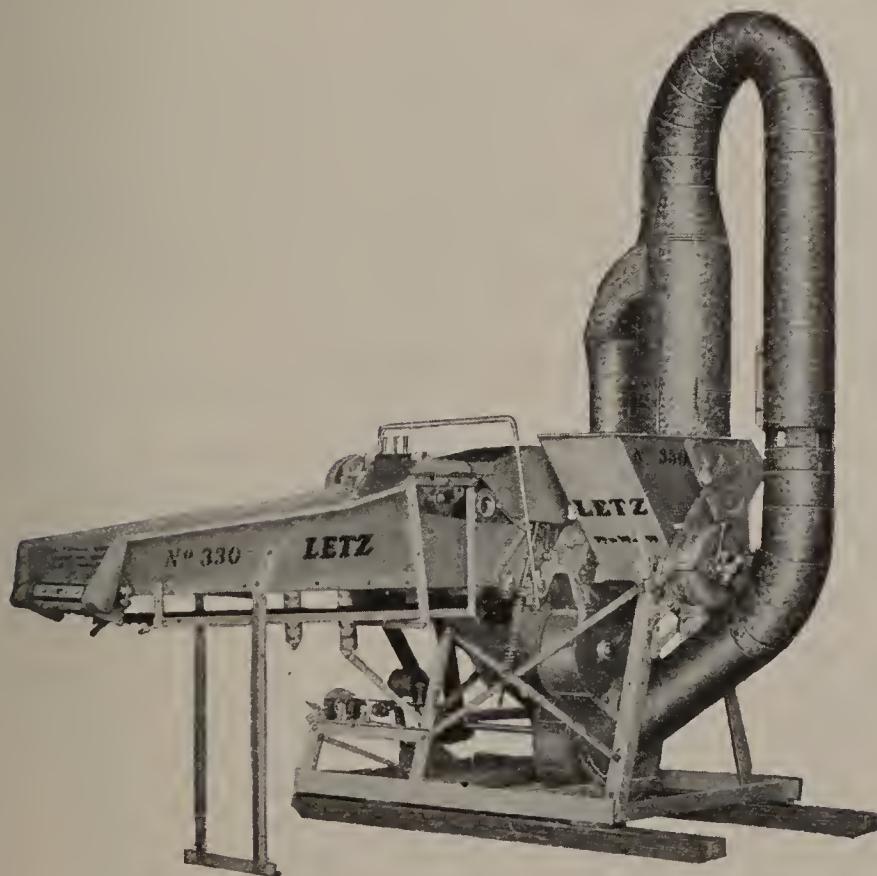
SILO FILLERS

The No. 230X LETZ is for the dairyman milking 10 to 20 cows, or the stock farm feeding 20 to 50 steers, 100 to 300 lambs, or 50 to 200 hogs.

With power saving grain separator, No. 230X LETZ is the right size for light tractors, 8-16 or 10-20 horse power, 10-15 horse power electric motors or 4 to 6 cylinder engines equipped with Letz power take-off attachment. It may be operated by 10 horsepower single phase motor, using 8 inch instead of 10 inch grinding plates. The cost of a Letz is spread over many more profitable feed preparing jobs, such as chopping and storing alfalfa or clover hay, silo filling, 20 to 30% added tonnage, chopping and storing soy bean or cowpea hay, grinding and storing grain, making molasses, feeds, etc. Specifications on Page 94. Prices on application.



No. 230X Letz with Grain Separator and Sacking Tower Equipment



The No. 330 Letz with Grain Separator and Standard Feed Table

Think of the new Letz with grain separator and finger feed as a "feed mill combine." Think of its ability to chop and store one feed crop after another. From field to mow, alfalfa or clover, hay, sheaf oats, cured fodder, cowpea or soy bean hay, hay-fodder mixtures like one half bundle sorghum, one-half dry hay. To fill trench or tower silo and grind grain. Think of the modern Letz as the only complete feed preparing machine.

Use it to save work. To reduce feed handling, preparing and storing costs. To increase profits by lowering feed costs.

Built with standard crawler type feed table with three forward speeds and a reverse, or with finger table. Takes average size bundles, one after another, without cutting bands or clogging.

No. 330 is built with the powerful Letz cutterhead, 12" in diameter x 12" wide, mounted on 3 1/8" diameter alloy steel main shaft. Equipped with 12 new Tufedge knives that cut 35 to 75 tons of feed before resharpening.

Smaller plates, 10" in diameter instead of regular 10 1/2" plates, may be used and this size operated to good capacity by a 10 or 15 horsepower electric motor or 6 cylinder engine. Specifications on Page 94. Prices on Application.

LETTZ

FEED PREPARING MACHINES—FIT ALL SIZE FARMS

TABLE OF CAPACITIES, GRAIN AND ROUGHAGE GRINDING IN POUNDS PER HOUR

	MODEL No.	No. 430	No. 360	No. 330	No. 230X	No. 130
As a ROUGHAGE GRINDER Cutting and Grinding	Bundle Fodder—Corn, Kafir, Milo, Feterita, Dorso, Maize, Hygeria.	6000-10,000	4500-8000	3000-6000	1500-3500	1200-2000
	Alfalfa, Clover, Sweet Clover, Soy Bean, Cowpea, or Pea- vine Hay.	4800-10,000	4000-8000	1800-6000	1500-3000	900-1800
As a GRAIN GRINDER	Ear Corn	4500-9000	2500-5000	2500-5000	2000-4500	2000-4500
	Small Grain	2000-6000	1500-4000	1500-4000	1100-3000	1100-3000
H. P. Required		25-40	20-30	20-25	15-20	10-16
Speed in R. P. M.		650-750	650-750	650-750	650-850	600-850

Capacities given here are for machines with grain separators. Without grain separator capacity decreases 30% on bundled feed and other roughages with heavy grain. Separator can be furnished for all sizes of Letz mills with the exception of the No. 130.

TABLE OF CAPACITIES, HAY-CHOPPING, SILO-FILLING AND RECUTTING IN POUNDS OR TONS PER HOUR

	MODEL No.	No. 430	No. 360	No. 330	No. 230X	No. 130
As a HAY CHOPPER* Cutting and Blowing into Mow	Cured Hay, Lbs. per Hr.	5000-10,000	4000-8000	2000-5000	1200-3000	1200-2000
As a SILO FILLER	Green Feed, Tons per Hr.	18-25	12-18	10-15	6-9	4-6
As a RECUTTER Cutting & Recutting Through Cutter Head Only, $\frac{3}{4}$ " Screen	Bundle Fodder—Corn, Kafir, Milo, Feterita, Dorso, Maize, Hygeria.	5000-10,000	4000-8000	3000-6000	1500-3500	1200-2500
H. P. Required		25-40	20-30	20-25	15-20	10-16
Speed in R. P. M.		650-750	650-750	650-750	650-850	600-850

Capacities given here are for machines with plain feed table, without finger feed. The finger feed built only for the Nos. 430 and 360 Letz on these sizes, increases capacity up to 50% on cured hay over those shown in the table above.

SPECIFICATION OF ROUGHAGE MILLS

MODEL No.	No. 430	No. 360	No. 330	No. 230X	No. 130
Horse Power Required	25-40 H.P.	20-30 H.P.	20-25 H.P.	15-20 H.P.	10-16 H.P.
Width of Feed Table	20"	16"	12"	10 $\frac{1}{2}$ "	9 $\frac{1}{2}$ "
Diameter of Cutter Head	16"	12"	12"	10 $\frac{1}{2}$ "	9 $\frac{1}{2}$ "
Size of Grinding Plates	12"	10 $\frac{1}{2}$ "	10 $\frac{1}{2}$ "	10"	10"
Diameter of Cutter Head Shaft	3 $\frac{7}{16}$ "	3 $\frac{1}{8}$ "	3 $\frac{1}{8}$ "	1 $\frac{1}{8}$ "	1 $\frac{1}{8}$ "
Length of Main Bearing at Pulley	8 $\frac{1}{2}$ "	7"	7"	7"	7"
Size of Regular Drive Pulley	16x8"	16x8"	16x8"	14x8"	12x6"
Diameter of Exhaust Fan	24"	24"	24"	24"	16"
Speed Recommended R.P.M.	650-750	650-750	650-750	650-850	600-850
Sacking Tower Equipment	Optional	Yes	Yes	Yes	Yes
Wagon Box Tower Equipment	Optional	Yes	Yes	Yes	Yes
Trucks	Optional	Yes	Yes	Yes	Yes
Grain Separator	Optional	Yes	Yes	Yes	No
Crawler Type Finger Feed	Optional	Yes	Yes	No	No
Approximate Shipping Weight with Wagon Box, Tower and Grain Separator	3125 lbs.	2625 lbs.	2255 lbs.	1760 lbs.	1340 lbs.

Write For Special Catalogue and Prices

PLANTING, MATURITY AND WEIGHT TABLE

This is for field planting, and where plants and roots are started, it is necessary to have them ready before-hand. The third column indicates the distance that the plants should stand in the rows, and where seed is sown they should be thinned out to this distance. The fifth column indicates maturity from the time plants are planted in the field or seed is sown in the field. Also note that the last column is the approximate weight of seeds and not products. Time of planting and maturity is for latitude of Baltimore, Md.

* Indicates that the crop can either be planted in the Spring or Fall; if in the Spring, February to April; in the Fall, August and September.

	Time to Sow or Plant	Distance of Rows Apart	Distance of Plants in Rows	Quantity per Acre	Ready to Use	Approximate Weight of Seeds per bu. in lbs.
Alfalfa.....	*May to Sept.	Broadcast.	Broadcast.	20 lbs.	Next Year.....	60
Artichoke—Tubers.....	April to May	2½ ft.	2 ft.	6 to 8 bu.	Sept. to Oct.....	50
Asparagus Seeds.....	April to May	15 in.	4 to 6 in.	8 to 10 lbs.	3 years.....	60
Asparagus—Roots.....	March to April	6 to 8 ft.	12 to 18 in.	4,000 to 7,000	2 years.....	—
Beans—Dwarf.....	April to Aug.	2½ ft.	4 to 6 in.	90 lbs.	8 weeks.....	60
Beans—Navy.....	May to June	2½ ft.	6 in.	45 to 60 lbs.	Winter.....	60
Beans—Soja.....	May to June	Broadcast.	Broadcast.	1 to 1½ bu.	Fall and Winter.....	60
Beans—Pole.....	May to June	4 ft.	3 ft.	40 lbs.	10 weeks.....	60
Beets—Table.....	March to July	12 to 18 in.	4 in.	6 to 8 lbs.	1½ to 3 mos.	19½
Beets—Sugar.....	April to June	2½ to 3 ft.	6 to 8 in.	5 to 6 lbs.	Fall and Winter.....	19½
Buckwheat.....	June to Aug.	Broadcast.	Broadcast.	1 bu. or 50 lbs.	Fall.....	50
Cabbage—Plants (early).....	March to April	30 in.	15 to 20 in.	10,000 to 14,000	June to July.....	54
Cabbage—Plants (late).....	July to Aug.	3 ft.	2 ft.	7,260	Fall and Winter.....	54
Carrot.....	April to June	1 to 2 ft.	3 to 4 in.	3 to 4 lbs.	45 to 70 days.....	28
Cauliflower—Plants.....	March to April	2½ ft.	2 ft.	8,000 to 10,000	3 months.....	54
Celery—Plants.....	June to Aug.	3 to 4 ft.	6 to 9 in.	15,000 to 30,000	4 to 5 months.....	37
Clover—Red and Sapling.....	Feb. to Sept.	Broadcast.	Broadcast.	8 to 10 lbs.	Next Year.....	60
Clover—Alsike.....	*Feb. to Sept.	Broadcast.	Broadcast.	5 to 8 lbs.	Next Year.....	60
Clover—Crimson.....	July to Sept.	Broadcast.	Broadcast.	12 to 15 lbs.	May 1.....	60
Corn—Garden.....	April to July	3 to 3½ ft.	9 to 15 ins.	8 lbs.	2 to 3 months.....	44 to 50
Corn—Field (drills).....	April to July	3½ to 4 ft.	10 to 18 in.	7 to 8 lbs.	3 to 4 months.....	56
Corn—Field (checked).....	April to July	3½ to 4 ft.	3½ to 4 ft.	6 lbs.	3 to 4 months.....	56
Cucumber.....	April to July	4 to 5 ft.	4 ft.	2 lbs.	2 to 2½ months.....	39
Egg Plant—Plants.....	May to June	3 ft.	2½ to 3 ft.	5,000 to 6,000	60 days.....	39
Endive.....	August	18 in.	12 in.	4 to 5 lbs.	2 to 2½ months.....	26
Grass Seed—(Light).....	*Feb. to Oct.	Broadcast.	Broadcast.	1½ to 2 bu.	Next Year.....	14
Grass Seed—(Lawn).....	*Feb. to Oct.	Broadcast.	Broadcast.	100 to 125 lbs.	8 to 10 weeks.....	20
Horseradish—Roots.....	Feb. to March	2½ ft.	12 to 18 in.	12,000 to 15,000	6 to 8 months.....	—
Kale—Spring.....	Feb. to Sept.	Broadcast.	Broadcast.	6 to 8 lbs.	5 to 6 weeks.....	56
Kale—Winter.....	July to Sept.	Broadcast.	Broadcast.	3 to 4 lbs.	Fall to Spring.....	54
Kohl Rabi—Plants.....	April to May	1½ to 2 ft.	10 to 12 in.	21,000 to 34,000	2½ to 3 months.....	56
Lettuce—Plants.....	April to Sept.	12 to 15 in.	6 to 8 in.	40,000 to 80,000	1½ to 2 months.....	35
Melon—Musk.....	May to July	4 to 6 ft.	4 to 6 ft.	2 lbs.	2½ to 3 months.....	32
Melon—Water.....	May to June	8 to 10 ft.	8 to 10 ft.	3 lbs.	3 months.....	35
Millet—German.....	May to July	Broadcast.	Broadcast.	1 bu.	6 to 7 weeks.....	50
Mustard.....	March to Sept.	Broadcast.	Broadcast.	4 to 5 lbs.	6 to 8 weeks.....	56
Oats—Spring.....	March to April	Broadcast.	Broadcast.	1½ to 2 bu.	July 1.....	32
Oats—Winter.....	*Feb. to Sept.	Broadcast.	Broadcast.	1½ to 2 bu.	June 20 to July 10.....	32
Okra.....	April to May	2½ to 3 ft.	8 to 10 in.	8 to 10 lbs.	60 to 70 days.....	48
Onions—For large bulbs.....	April to May	12 to 14 in.	—	4 to 5 lbs.	Aug. to Sept.....	39
Onions—For sets.....	April to May	10 to 12 in.	—	40 to 50 lbs.	Aug. to Sept.....	39
Onion Sets.....	March to May	12 in.	4 in.	15 to 16 bu.	July.....	32
Parsley.....	March to April	12 in.	—	15 lbs.	July.....	42
Parsnips.....	March to April	18 in.	4 to 6 in.	5 to 7 lbs.	Fall and Winter.....	18
Peas—Smooth.....	Feb. to March	2½ to 3 ft.	—	84 to 112 lbs.	7 weeks.....	60
Peas—Wrinkled.....	April to May	2½ to 3 ft.	—	84 to 112 lbs.	7 to 9 weeks.....	56
Peas—Canada Field.....	Feb. to April	Broadcast.	Broadcast.	90 lbs.	June 15.....	60
Peas—Cow.....	May to July	Broadcast.	Broadcast.	1½ bu.	3 months.....	60
Pepper—Plants.....	May 15	30 in.	15 to 18 in.	11,000 to 14,000	2 to 2½ months.....	28
Potatoes—(Early).....	March to April	27 in.	10 to 12 in.	8 to 12 bu.	June to July.....	60
Potatoes—(Late).....	July to August	30 in.	15 to 18 in.	8 to 10 bu.	Oct. to Nov.....	60
Sweet Potatoes—Plants.....	May 15	3 ft.	20 to 24 in.	7,000 to 8,000	Sept. to Winter.....	45
Pumpkin.....	May	8 to 10 ft.	8 to 10 ft.	2 lbs.	Fall.....	24
Radish.....	March to Aug.	10 to 15 in.	3 in.	8 to 10 lbs.	24 to 40 days.....	56
Rape.....	*Feb. to Sept.	Broadcast.	Broadcast.	6 to 8 lbs.	6 to 8 weeks.....	56
Rhubarb—Roots.....	March to April	4 ft.	2 to 3 ft.	5,000 to 7,000	Next Year.....	—
Rye.....	Aug. to Nov.	Broadcast.	Broadcast.	1 to 2 bu.	April 20.....	56
Salsify.....	March to April	1½ to 2 ft.	3 to 4 in.	6 to 8 lbs.	Fall and Winter.....	18
Spinach—Early.....	*Feb. to Sept.	Broadcast.	Broadcast.	15 to 20 lbs.	8 Weeks.....	48
Squash—Spring.....	May	4 ft.	3 ft.	3 lbs.	July.....	26
Squash—Winter.....	May to June	6 to 8 ft.	6 to 8 ft.	2 lbs.	Fall and Winter.....	22
Teosinte.....	May to June	3 to 3½ ft.	8 to 10 in.	3 to 5 lbs.	Aug. to Oct.....	46
Tobacco—Plants.....	May to June	3 to 3½ ft.	2½ to 3 ft.	4,800 to 5,000	Sept. to Oct.....	35
Tomato—Plants.....	May to July	4 ft.	3 to 4 ft.	2,700 to 3,600	July until frost.....	20
Turnip.....	March to Sept.	Broadcast.	Broadcast.	1½ to 2 lbs.	1½ to 2 months.....	56
Vetch.....	Aug. to Oct.	Broadcast.	Broadcast.	50 lbs.	May.....	50
Wheat.....	Sept. to Oct.	Broadcast.	Broadcast.	1 to 1½ bu.	July 1.....	60

After the Early Crop is Over, Plant a Late Crop for Winter Use
Insure Your Garden with Wiseman-Downs Seeds

We will deliver by parcel post, prepaid, to any post office within the third zone, or within a radius of three hundred miles of Baltimore, Md., all Vegetable and Flower Seeds by the Packet, Ounce, Quarter Pound, Half Pound, Pound, Pint and Quart, at prices quoted in this catalogue. Above these quantities the purchaser pays transportation.

Postal weight on Peas, Beans and Corn approximately one pound to pint.

PARCEL POST RATES

Weight in pounds	Local	ZONES							
		1st up to 50 miles	2nd, 50 to 150 miles	3rd, 150 to 300 miles	4th, 300 to 600 miles	5th, 600 to 1,000 miles	6th, 1,000 to 1,400 miles	7th, 1,400 to 1,800 miles	8th, over 1,800 miles
1	\$0.07	\$0.08	\$0.08	\$0.09	\$0.10	\$0.11	\$0.12	\$0.14	\$0.15
2	.08	.10	.10	.11	.14	.17	.19	.23	.26
3	.08	.11	.11	.13	.17	.22	.26	.32	.37
4	.09	.12	.12	.15	.21	.27	.33	.41	.48
5	.09	.13	.13	.17	.24	.33	.40	.50	.59
6	.10	.14	.14	.19	.28	.38	.47	.59	.70
7	.10	.15	.15	.21	.31	.43	.54	.68	.81
8	.11	.16	.16	.23	.35	.49	.61	.77	.92
9	.11	.17	.17	.25	.38	.54	.68	.86	1.03
10	.12	.18	.18	.27	.42	.59	.75	.95	1.14
11	.12	.19	.19	.29	.45	.64	.82	1.04	1.25
12	.13	.21	.21	.31	.49	.70	.89	1.13	1.36
13	.13	.22	.22	.33	.52	.75	.96	1.22	1.47
14	.14	.23	.23	.35	.56	.80	1.03	1.31	1.58
15	.14	.24	.24	.37	.59	.86	1.10	1.40	1.69
16	.15	.25	.25	.39	.63	.91	1.17	1.49	1.80
17	.15	.26	.26	.41	.66	.96	1.24	1.58	1.91
18	.16	.27	.27	.43	.70	1.02	1.31	1.67	2.02
19	.16	.28	.28	.45	.73	1.07	1.38	1.76	2.13
20	.17	.29	.29	.47	.77	1.12	1.45	1.85	2.24
21	.17	.30	.30	.49	.80	1.17	1.52	1.94	2.35
22	.18	.32	.32	.51	.84	1.23	1.59	2.03	2.46
23	.18	.33	.33	.53	.87	1.28	1.66	2.12	2.57
24	.19	.34	.34	.55	.91	1.33	1.73	2.21	2.68
25	.19	.35	.35	.57	.94	1.39	1.80	2.30	2.79
26	.20	.36	.36	.59	.98	1.44	1.87	2.39	2.90
27	.20	.37	.37	.61	1.01	1.49	1.94	2.48	3.01
28	.21	.38	.38	.63	1.05	1.55	2.01	2.57	3.12
29	.21	.39	.39	.65	1.08	1.60	2.08	2.66	3.23
30	.22	.40	.40	.67	1.12	1.65	2.15	2.75	3.34
31	.22	.41	.41	.69	1.15	1.70	2.22	2.84	3.45
32	.23	.43	.43	.71	1.19	1.76	2.29	2.93	3.56
33	.23	.44	.44	.73	1.22	1.81	2.36	3.02	3.67
34	.24	.45	.45	.75	1.26	1.86	2.43	3.11	3.78
35	.24	.46	.46	.77	1.29	1.92	2.50	3.20	3.89
36	.25	.47	.47	.79	1.33	1.97	2.57	3.29	4.00
37	.25	.48	.48	.81	1.36	2.02	2.64	3.38	4.11
38	.26	.49	.49	.83	1.40	2.08	2.71	3.47	4.22
39	.26	.50	.50	.85	1.43	2.13	2.78	3.56	4.33
40	.27	.51	.51	.87	1.47	2.18	2.85	3.65	4.44
41	.27	.52	.52	.89	1.50	2.23	2.92	3.74	4.55
42	.28	.54	.54	.91	1.54	2.29	2.99	3.83	4.66
43	.28	.55	.55	.93	1.57	2.34	3.06	3.92	4.77
44	.29	.56	.56	.95	1.61	2.39	3.13	4.01	4.88
45	.29	.57	.57	.97	1.64	2.45	3.20	4.10	4.99
46	.30	.58	.58	.99	1.68	2.50	3.27	4.19	5.10
47	.30	.59	.59	1.01	1.71	2.55	3.34	4.28	5.21
48	.31	.60	.60	1.03	1.75	2.61	3.41	4.37	5.32
49	.31	.61	.61	1.05	1.78	2.66	3.48	4.46	5.43
50	.32	.62	.62	1.07	1.82	2.71	3.55	4.55	5.54

WEIGHT OF AGRICULTURAL SEEDS, PER BUSHEL, AND QUANTITY USUALLY SOWN PER ACRE

Weight per Bushel	Pounds per Acre.
14 lbs. Awnless Brome.....	35 to 40 lbs.
60 lbs. Alsike, alone.....	6 lbs.
60 lbs. Alfalfa or Lucerne.....	20 lbs.
48 lbs. Barley, broadcast.....	.2 bus.
... lbs. Broom Corn, in hills.....	6 to 8 qts.
48 lbs. Buckwheat, broadcast.....	.1 bus.
21 lbs. Crested Dog's Tail.....	25 lbs.
20 lbs. Creeping Bent.....	50 lbs.
60 lbs. Crimson Clover.....	15 to 20 lbs.
56 lbs. Corn, for soiling.....	1 to 2 bus.
24 lbs. English Rye or Perennial Rye.....	50 lbs.
20 lbs. Evergreen Lawn.....	3 to 4 bus.
56 lbs. Flax, for seed.....	.1 bus.
... lbs. Flax, for fiber.....	2 to 3 bus.
56 lbs. Field Corn, in hills.....	.4 qts.
50 lbs. German Millet.....	50 lbs.
48 lbs. Hungarian Millet.....	48 lbs.
44 lbs. Hemp.....	22 lbs.
20 lbs. Italian Rye.....	50 lbs.
14 lbs. Kentucky Blue.....	38 lbs.
22 lbs. Meadow Fescue.....	50 lbs.
7 lbs. Meadow Foxtail.....	30 lbs.
14 lbs. Orchard Grass.....	42 lbs.
32 lbs. Oats, broadcast.....	2 to 2½ bus.
10 lbs. Red Top chaff.....	40 to 50 lbs.
14 lbs. Red Top, unhulled.....	30 to 40 lbs.
32 lbs. Red Top, fancy.....	6 to 8 lbs.
60 lbs. Red Clover.....	15 lbs.
56 lbs. Rye, broadcast.....	1 bus.
12 lbs. Sheep Fescue.....	30 lbs.
48 lbs. Sorghum, drills.....	4 qts.
... lbs. Sorghum, broadcast.....	.8 qts.
10 lbs. Tall Meadow Oat.....	50 lbs.
45 lbs. Timothy, alone.....	.¼ bus.
... lbs. Timothy, with other grasses.....	.8 lbs.
... lbs. Together for an acre.....	.8 lbs.
... lbs. Red Clover.....	10 lbs.
... lbs. Timothy.....	.½ bus.
... lbs. Red Top.....	14 lbs.
60 lbs. Vetches, broadcast.....	1 bus.
14 lbs. Wood Meadow.....	.30 lbs.
60 lbs. White Clover, alone.....	6 lbs.
... lbs. White Clover, with other grasses.....	.3 lbs.
60 lbs. Wheat, broadcast.....	1½ to 2 bus.
... lbs. Wheat, in drills.....	1½ to 2 bus.

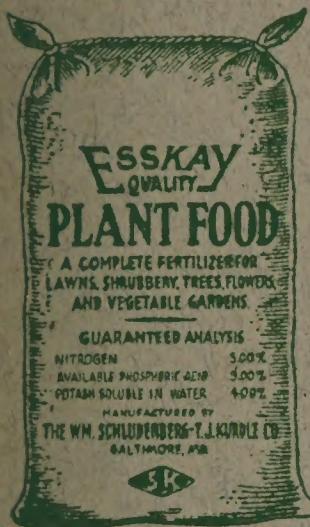
VEGETABLE SEED TABLE THE QUALITY OF SEED USUALLY SOWN TO AN ACRE

Asparagus.....	.5 lbs.
Beans, dwarf in drills.....	.1 bus.
Beans, pole in hills.....	8 to 10 qts.
Beet, in drills.....	4 to 6 lbs.
Cabbage, in beds, to transplant.....	.¼ lb.
Carrot, in drills.....	2 to 3 lbs.
Celery, to transplant.....	.½ lb.
Corn, in hills (sugar).....	.4 qts.
Kale.....	4 to 6 lbs.
Melon, musk.....	1½ to 2 lbs.
Melon, water.....	2 to 3 lbs.
Mustard, broadcast.....	12 to 16 lbs.
Mengal wurzel.....	4 to 6 lbs.
Onions, in drills to make large onions.....	6 to 8 lbs.
Onion Seeds, for small sets.....	40 to 60 lbs.
Parsnips, in drills.....	4 to 6 lbs.
Peas, early, in drills.....	1¼ bus.
Peas, Marrowfat, in drills.....	1¼ bus.
Peas, broadcast.....	2 to 3 bus.
Potato, cut tubers in drills.....	8 to 11 bus.
Radish, in drills.....	6 to 8 lbs.
Radish, broadcast.....	10 lbs.
Salsify, in drills.....	6 to 8 lbs.
Spinach, in drills.....	12 to 20 lbs.
Squash, bush varieties, in hills.....	.4 to 6 lbs.
Squash, running varieties, in hills.....	3 to 4 lbs.
Turnip, in drills.....	1 lb.
Turnip, broadcast.....	.2 lbs.
Tomato, to transplant.....	.¼ lb.

When George Washington left his manor house at Mt. Vernon some 150 years ago and undertook the journey to Philadelphia, his coach-and-six made a brave display. Actually, though, he had at his command but little better means of transportation than the Roman Emperors 3,000 years before. Proceeding in a leisurely style, as became his dignity, our first President took seven days for his journey. Today a mail plane covers the distance in less than one hour. The post-rider, the steamboat on canal and river, the train on its rails, and the airplane—master of its own right-of-way—mark the four periods of progress of postal service in America. Between the suns a continent is spanned, and the distant islands of the sea know the mail plane. Tomorrow—whatever it may bring, the postal service will ride with the pioneer.



FERTILIZERS



ESSKAY QUALITY PLANTFOOD

A complete organic fertilizer consisting of blood, bonemeal, tankage and potash scientifically blended for Flowers, Lawns, Vegetables, Trees and Shrubs. It is economical, NON BURNING, and pleasant to use. It builds up the soil and leaves no acid residue. Approved and recommended by Florists, Nurserymen and Gardeners everywhere.

PRICES

100 Lb. Bags	\$3.50	Per Bag
50 Lb. Bags	2.35	Per Bag
25 Lb. Bags	1.50	Per Bag
10 Lb. Bags	.75	Per Bag
2 Lb. Bags	.25	Per Bag
	65.00	Per Ton

BALANCED PLANT FOOD

4-12-4

A high grade fertilizer for all kinds of truck such as Tomatoes, Beans, Peas, etc. 167 lb. bags \$3.00.
167 lb. bags \$2.75

ALUMINUM SULPHATE

For rhododendrons and azaleas. 1 lb. 10c 5 lbs. 30c 100 lbs. \$4.00.

BACTERIA FOR LEGUMINOUS CROPS

See nitragin, page 40.

BLOOD—DRIED

Very quick in action. Excellent for roses and other garden flowers. Also extensively used in greenhouses. 5 lbs. 50c 10 lbs. 70c 50 lbs. \$3.00 100 lbs. \$5.00.

PASTURE FERTILIZER

6-6-5

167 lb. bags \$2.75

BONE FLOUR

Very fine and bolted. Acts almost immediately. Rich in phosphoric acid and ammonia. Exceptionally good for roses. 5 lbs. 50c 10 lbs. 80c 25 lbs. \$1.50 100 lbs. \$5.00.

BONE MEAL

Made from pure raw bone. Unusually rich in nitragin and phosphoric acid. Especially recommended for lawns and flowers. 5 lbs. 25c 25 lbs. \$1.00 100 lbs. \$3.00.

COW or CATTLE MANURE

Very good for roses. Convenient to handle. Especially suited for soil mixing. 5 lbs. 30c 25 lbs. \$1.00 100 lbs. \$3.00.

COMMERCIAL CROP COMPOUND 2-8-10

167 lb. bag, \$2.75

LAND PLASTER

Used for top dressing newly plowed land, prior to harrowing; also used for mixing with Paris Green. 100 lb. bag \$1.25.

LIME (Hydrated)

Fine for spreading on lawns to sweeten the soil; also has a tendency to prevent the growth of weeds. 50 lb. bag 50c 500 lbs. \$5.00

MURIATE OF POTASH

For mixing with other fertilizers. Used at rate of 100 to 150 pounds per acre. Analysis equal to 50% actual potash. 5 lbs. 40c 25 lbs. \$1.00 100 lbs. \$2.50.

NITRATE OF SODA

Apply 100 to 150 pounds per acre, mixing with land plaster or other fertilizers, to render application more easy. Used only after plants are above ground. If used in liquid form, dilute 2 ounces to one gallon of water, and do not apply oftener than twice a week. 5 lbs. 40c 10 lbs. 75c 100 lbs. \$3.00.

PEAT MOSS (Imported)

Highest grade, clean and free from dirt or other refuse. Excellent for mulching flower beds of all kinds, shrubs, evergreens, lawns, hotbeds, etc. Conserves moisture, Price, Large bale about 20 bu. \$2.75.

PLANTABBS or ODORLESS PLANT FOOD IN TABLET FORM

For all plants in the house or garden. They dissolve in water almost instantly and make a wonderful liquid fertilizer. Pkg. 30 tablets 25c, 75 tablets 50c, 200 tablets \$1.00, 1,000 tablets \$3.50.

SALT (Coarse)

For asparagus beds and putting on road and walks to kill weeds. Apply 800 pounds per acre in early Spring. 10 lbs. 25c, 50 lbs. 75c, 100 lb. bag \$1.25, 200 lb. bag \$2.25.

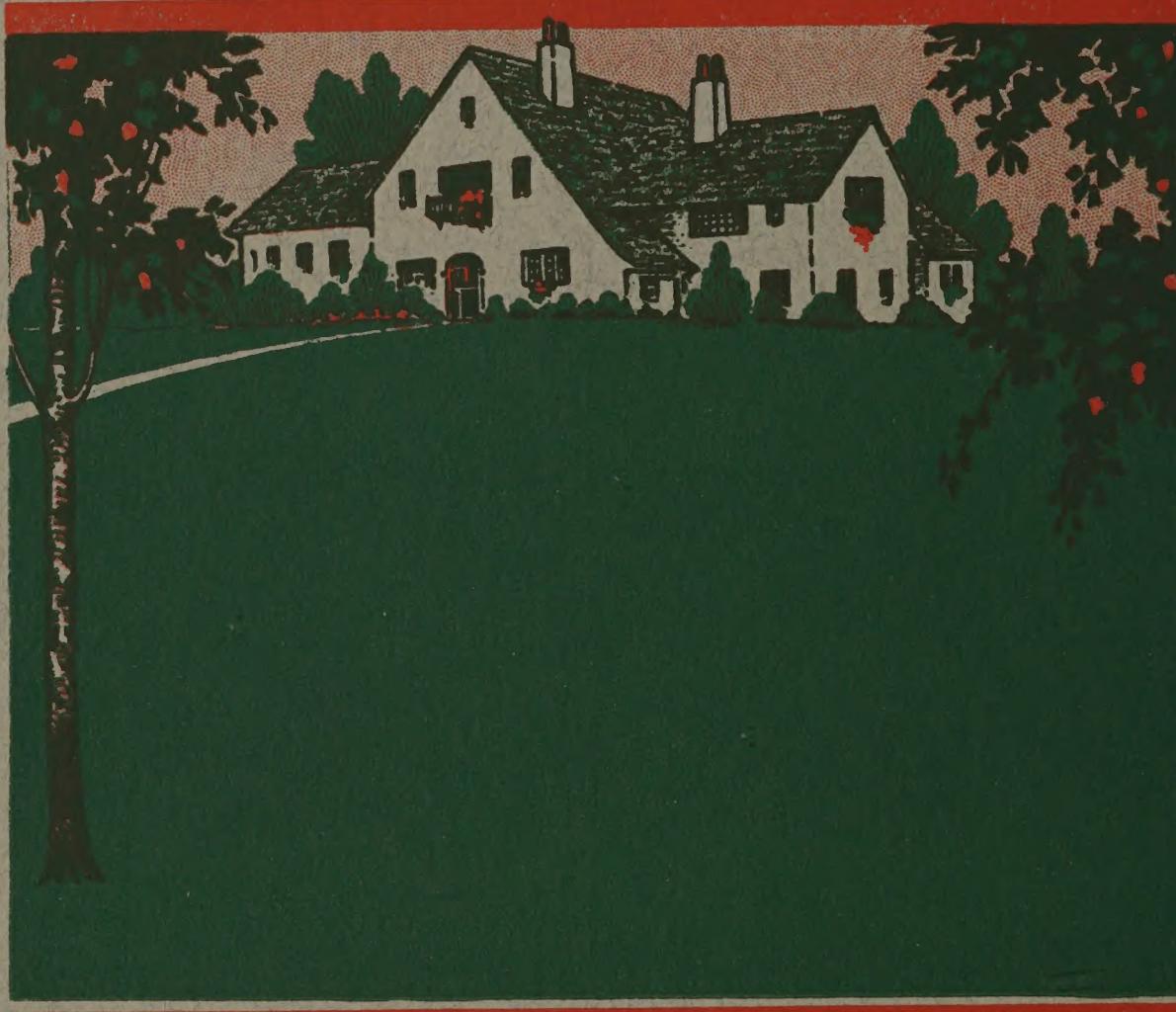
SHEEP MANURE

Apply 1,000 pounds per acre. One of the most extensively used of animal manures. For garden, lawn or greenhouse use. Clean and easy to handle. 5 lbs. 25c, 10 lbs. 45c, 25 lbs. \$1.00, 100 lbs. \$2.50.

SULPHATE OF AMMONIA

Lb. 10c, 5 lbs. 30c, 10 lbs. 45c, 100 lbs. \$3.00.

'WISDOM' EVERGREEN LAWN GRASS



Our "WISDOM" EVERGREEN LAWN GRASS is a mixture of grasses that are adapted to lawn making. No one grass makes an ideal lawn grass, so we have put into our "Wisdom" Evergreen a well-balanced mixture of grasses that are at their best during different months of the year and will make a rich, deep green, velvety lawn in as short a time as possible. The seeds are tested for purity and germination by the United States Department of Agriculture and by ourselves, and will be found of highest quality and should not be confounded with the cheap, chaffy grasses offered at a lower price.

1 lb. 35c 2 lbs. 60c 5 lbs. \$1.30 10 lbs. \$2.40 20 lbs. (1 bu.) \$4.50

PARK LAWN GRASS.—For those desiring a cheaper grade of Lawn Grass, this will be a very excellent mixture, though, of course it does not contain all the high-grade seeds which are used in the "Wisdom" grass. 1 lb. 25c, 5 lb. \$1.00, 20 lbs. (1 bu.) \$3.50.

TERRACE SOD MIXTURE.—This mixture is composed of deep rooting grasses and will give satisfactory results, unless terrace is very steep. 1 lb. 35c, 5 lbs. \$1.30, 20 lbs. (1 bu.) \$4.50.

SHADY NOOK LAWN GRASS.—In this mixture we use a large proportion of Red Fescue and Poa Trivialis which are best adapted for shady places and unless it is a very dense shade, this will give the very best results. 1 lb. 35c, 5 lbs. \$1.30 20 lbs. (1 bu.) \$4.50.

WHITE DUTCH CLOVER.—For lawns. Makes a small compact growth, covering the ground like a carpet. Sow either in the spring or fall. 1 lb. 55c 5 lbs. \$2.50, 10 lbs. \$4.50.